

CAPRI

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## > Products CAPRI INDUSTRY ATEX

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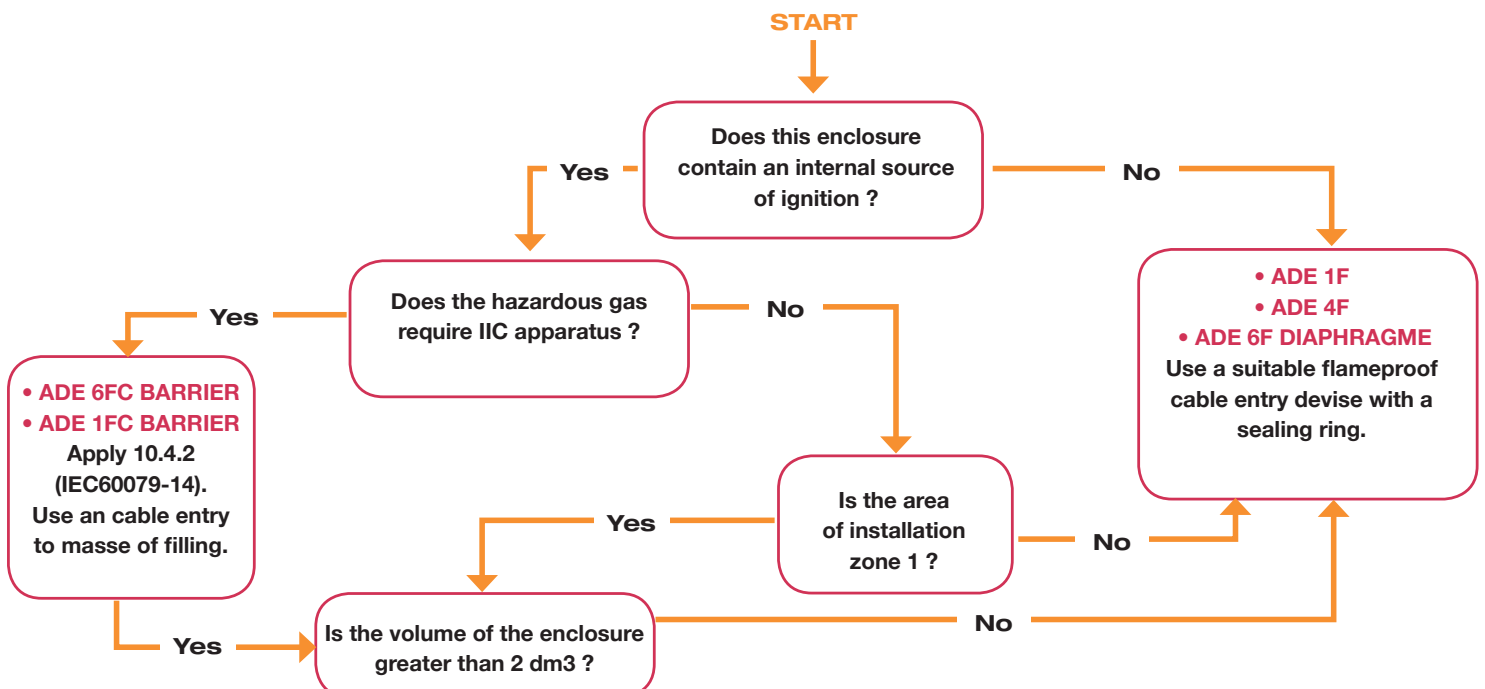
# Guide of technical application

## Selection process for hazardous area cable glands according to IEC

- Identify the type of cable to be connected:  
example : type of cable IEC or others
- Take note of dimensions of the cable that will be connected
- If the cable is armoured:
  - Identify the type of armour or shielding
  - Identify the various diameters
  - Diameter on inner sheath
  - Diameter on lead sheath if there is one
  - Diameter on the outer sheath
- If the cable is unarmoured:
  - Diameter on the outer sheath
- Upstream will have been defined:
  - **Criteria of behavior** to corrosion and environmental aggressions
  - The presence or not of **electrolytic couple**
  - The degree of protection of the **envelope of assembly**
  - The requirement out of **complementary accessories**: seals, cap, etc...
  - **Mode of assembly** on the envelope: smooth drilling or tapped drilling
  - The requirement out of **accessories for electric connection**
- In the case of explosive atmospheres, refer to the table of selection according to:



### SELECTION TABLE according to 10.4.2 of CEI 600079-14



## Technology of the Cooper cable glands



### SEALING WITH RESIN (epoxy or different)

PRODUCTS	FEALURES	Schemas
ADE 1FC ADE 1FC-C ADE 1FLC ADE 1FLC-C ADE 6FC ADE 6FLC	The sealing barrier is carried out on site by the assembler and this sealing is the flameproof seal.  The sealing is carried out on each isolated strands of the cable. In case of armoured cables, COOPER technology provide a fully inspectable mechanical crimping of the armour.	

### SEALING WITH DIAPHRAGM

PRODUCTS	FEALURES	Schemas
ADE6F	The sealing barrier is carried out with an elastomer diaphragm. Flameproof diaphragm does not damage cable exhibiting "cold flow". COOPER technology provide a fully inspectable mechanical crimping of the armour.	

### SEALING WITH COMPRESSED RING

PRODUCTS	FEALURES	Schemas
ADE 1F ADE 4F	The sealing is carried out with an elastomer ring with studied forms, combined with a design of metal parts to obtain a broad range of tightening.	

### SEALING WITH RING AND CONE OF DEFORMATION

PRODUCTS	FEALURES	Schemas
NEWCAP MS NEWCAP CT	The sealing is carried out with an elastomer ring, compressed by a design of metal parts: chamfer, radius for example, or a polyamide ring.	

## Cable gland for flameproof hazardous atmospheres

### CABLE GLAND FOR FLAMEPROOF HAZARDOUS ATMOSPHERES

protection mode	non-armoured cable	armoured cable
<b>Increased safety Ex e (IEC 60079-7)</b>		
<b>Flameproof Ex d (IEC 60079-1)</b>		
<b>Flameproof with resin Ex d (IEC 60079-1)</b>		

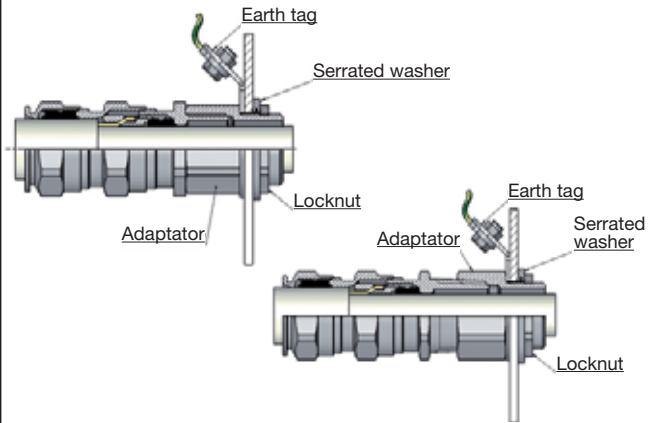
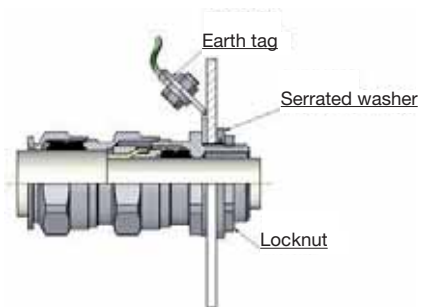
# Guide of technical application

## FIXING

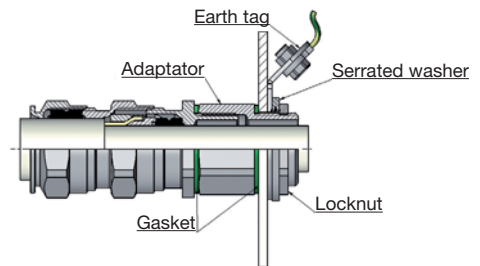
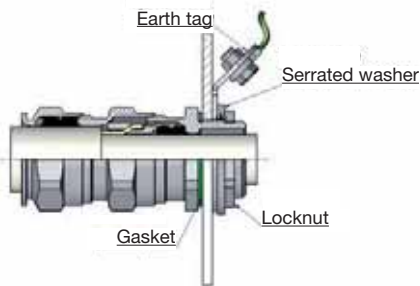
### BLANK HOLE

#### Cable gland

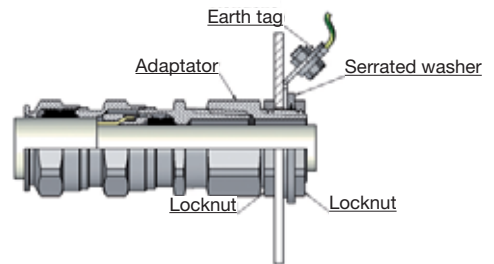
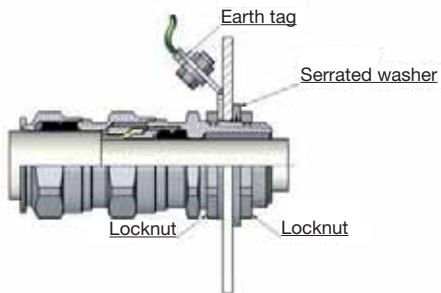
#### Cable gland equipped with an accessory



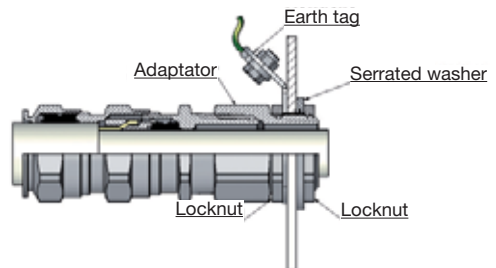
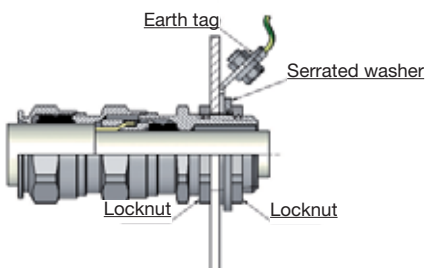
↑ IP 54 ↑



↑ With sealing washer = IP 66 / IP68 - Without sealing washer = IP 54 ↑



↑ IP 54 ↑ assembly not certified ATEX (cf : EN 60079-14 § 9.3.10)



↑ IP 54 ↑ assembly not certified ATEX (cf : EN 60079-14 § 9.3.10)

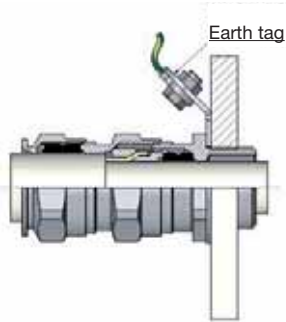
ISO

NPT

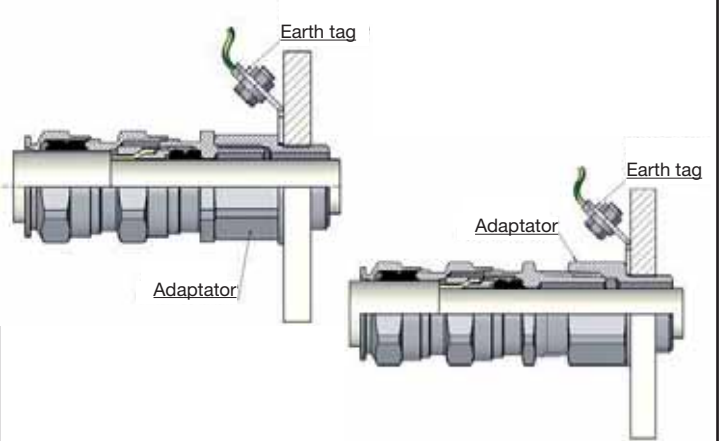
**FIXING**

**TAPPED HOLE**

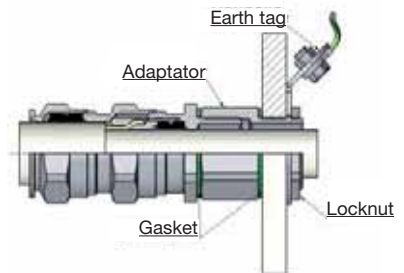
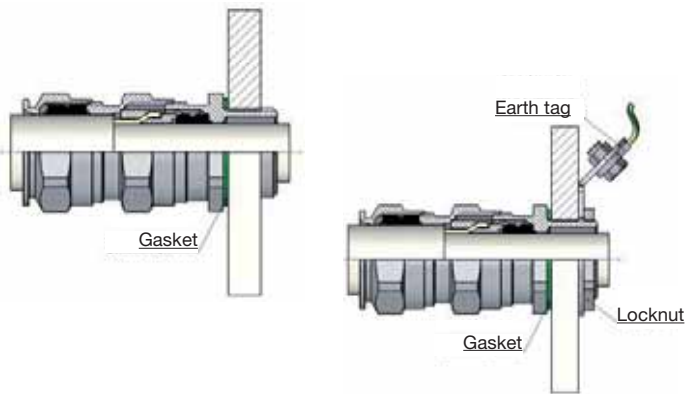
**Cable gland**



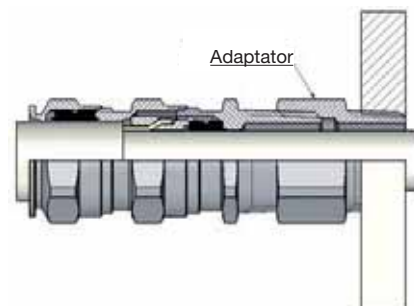
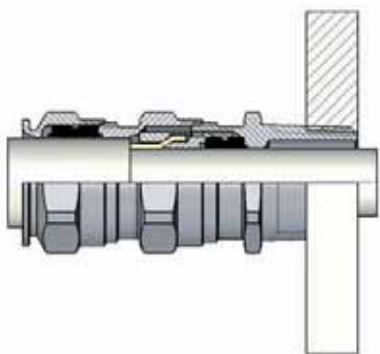
**Cable gland equipped with an adaptor**



↑ IP 54 ↑



↑ With sealing washer = IP 66 / IP68 - Without sealing washers = IP 54 ↑



↑ IP 54 ↑



		FIBER GASKET	NEOPRENE GASKET	LOCKNUT	EARTH TAG	SERRATED WASHER	SHROUD	CLAMPING MODULE	CONTACT WASHER
<b>ADE 1F ISO</b>									
12	CAP816404	CAP221245	CAP221249	CAP221294	-	-	CAP506040	CAP810434	-
16	CAP816594	CAP221645	CAP221649	CAP221694	CAP567034	CAP280069	CAP506040	CAP810434	-
16	CAP816504	CAP221645	CAP221649	CAP221694	CAP567034	CAP280069	CAP506050	CAP810534	-
20	CAP816674	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506040	CAP810434	-
20	CAP816694	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506050	CAP810534	-
20	CAP816604	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506060	CAP810634	-
25	CAP816774	CAP222545	CAP222549	CAP222594	CAP567074	CAP280259	CAP506050	CAP810534	-
25	CAP816794	CAP222545	CAP222549	CAP222594	CAP567074	CAP280259	CAP506060	CAP810634	-
25	CAP816704	CAP222545	CAP222549	CAP222594	CAP567074	CAP280259	CAP506070	CAP810734	-
32	CAP816894	CAP223245	CAP223249	CAP223294	CAP567094	CAP280329	CAP506070	CAP810734	-
32	CAP816804	CAP223245	CAP223249	CAP223294	CAP567094	CAP280329	CAP506080	CAP810834	-
40	CAP816994	CAP224045	CAP224049	CAP224094	CAP567124	CAP280409	CAP506080	CAP810834	-
40	CAP816904	CAP224045	CAP224049	CAP224094	CAP567124	CAP280409	CAP506090	CAP810934	-
50	CAP817094	CAP225045	CAP225049	CAP225094	CAP567154	CAP280509	CAP506090	CAP810934	-
50	CAP817004	CAP225045	CAP225049	CAP225094	CAP567154	CAP280509	CAP506100	CAP811034	-
63	CAP817294	CAP226345	CAP226349	CAP226394	CAP567184	CAP280639	CAP506110	CAP811134	-
63	CAP817204	CAP226345	CAP226349	CAP226394	CAP567184	CAP280639	CAP506120	CAP811234	-
75	CAP817394	CAP227545	CAP227549	CAP227594	CAP567194	CAP280759	CAP506120	CAP811234	-
75	CAP817304	CAP227545	CAP227549	CAP227594	CAP567194	CAP280759	CAP506130	CAP811334	-
90	CAP817594	CAP229045	CAP229049	CAP229094	CAP567214	CAP280099	CAP506140	CAP811434	-
90	CAP817504	CAP229045	CAP229049	CAP229094	CAP567214	CAP280099	CAP506150	CAP811534	-
110	CAP817794	CAP221145	CAP221149	CAP221194	-	-	CAP506160	CAP811634	-
<b>ADE 4F ISO</b>									
12	CAP846404	CAP221245	CAP221249	CAP221294	-	-	CAP506050	CAP810534	CAP560530
16	CAP846594	CAP221645	CAP221649	CAP221694	CAP567034	CAP280069	CAP506050	CAP810534	CAP560530
16	CAP846504	CAP221645	CAP221649	CAP221694	CAP567034	CAP280069	CAP506060	CAP810634	CAP560630
20	CAP846674	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506050	CAP810534	CAP560530
20	CAP846694	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506060	CAP810634	CAP560630
20	CAP846604	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506070	CAP810734	CAP560730
25	CAP846774	CAP222545	CAP222549	CAP222594	CAP567074	CAP280259	CAP506060	CAP810634	CAP560630
25	CAP846794	CAP222545	CAP222549	CAP222594	CAP567074	CAP280259	CAP506070	CAP810734	CAP560730
25	CAP846704	CAP222545	CAP222549	CAP222594	CAP567074	CAP280259	CAP506080	CAP810834	CAP560830
32	CAP846894	CAP223245	CAP223249	CAP223294	CAP567094	CAP280329	CAP506080	CAP810834	CAP560830
32	CAP846804	CAP223245	CAP223249	CAP223294	CAP567094	CAP280329	CAP506090	CAP810934	CAP560930
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40	CAP846904	CAP224045	CAP224049	CAP224094	CAP567124	CAP280409	CAP506100	CAP811034	CAP561030
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63	CAP847294	CAP226345	CAP226349	CAP226394	CAP567184	CAP280639	CAP506120	CAP811234	CAP561230
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75	CAP847394	CAP227545	CAP227549	CAP227594	CAP567194	CAP280759	CAP506130	CAP811334	CAP561330
75	CAP847304	CAP227545	CAP227549	CAP227594	CAP567194	CAP280759	CAP506140	CAP811434	CAP561430
90	CAP847594	CAP229045	CAP229049	CAP229094	CAP567214	CAP280099	CAP506150	CAP811534	CAP561530
90	CAP847504	CAP229045	CAP229049	CAP229094	CAP567214	CAP280099	CAP506160	CAP811634	CAP561630
90	CAP847574	CAP229045	CAP229049	CAP229094	CAP567214	CAP280099	CAP506170	-	CAP561630
110	CAP847794	CAP221145	CAP221149	CAP221194	-	-	CAP506170	-	-
<b>ADE 6F ISO</b>									
16	CAP965594	CAP221645	CAP221649	CAP221694	CAP567034	CAP280069	CAP506050	CAP810534	-
20	CAP965674	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506050	CAP810534	-
20	CAP965694	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506060	CAP810634	-
20	CAP965604	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506070	CAP810734	-
25	CAP965794	CAP222545	CAP222549	CAP222594	CAP567074	CAP280259	CAP506070	CAP810734	-
25	CAP965704	CAP222545	CAP222549	CAP222594	CAP567074	CAP280259	CAP506080	CAP810834	-
32	CAP965894	CAP223245	CAP223249	CAP223294	CAP567094	CAP280329	CAP506080	CAP810834	-
32	CAP965804	CAP223245	CAP223249	CAP223294	CAP567094	CAP280329	CAP506090	CAP810934	-
40	CAP965994	CAP224045	CAP224049	CAP224094	CAP567124	CAP280409	CAP506090	CAP810934	-
40	CAP965904	CAP224045	CAP224049	CAP224094	CAP567124	CAP280409	CAP506100	CAP811034	-
50	CAP966094	CAP225045	CAP225049	CAP225094	CAP567154	CAP280509	CAP506100	CAP811034	-
50	CAP966004	CAP225045	CAP225049	CAP225094	CAP567154	CAP280509	CAP506110	CAP811134	-
<b>ADE 6FC ISO</b>									
16	CAP969594	CAP221645	CAP221649	CAP221694	CAP567034	CAP280069	CAP506050	CAP810534	-
20	CAP969674	CAP222045	CAP222049	CAP222094	CAP567054	CAP280029	CAP506050	CAP810534	-
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32	CAP969804	CAP223245	CAP223249	CAP223294	CAP567094	CAP280329	CAP506090	CAP810934	-
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40	CAP969904	CAP224045	CAP224049	CAP224094	CAP567124	CAP280409	CAP506100	CAP811034	-
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Metal parts: STAINLESS, change the last number by 9



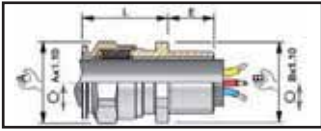
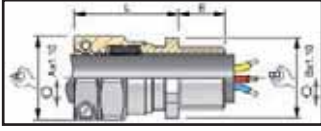
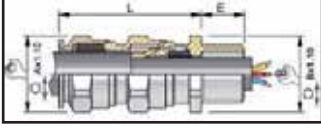
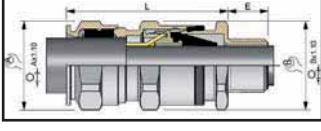
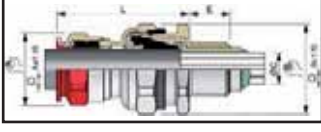
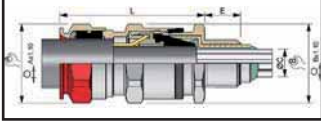
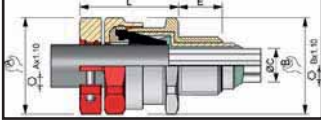
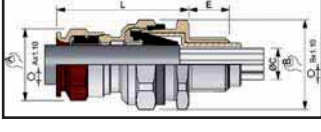
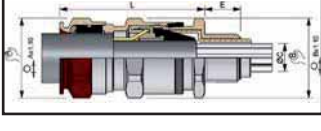
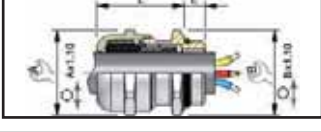
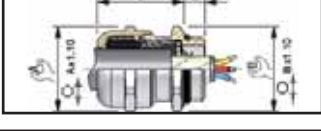









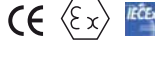
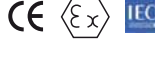




		FIBER GASKET	NEOPRENE GASKET	LOCKNUT	EARTH TAG	SERRATED WASHER	SHROUD	CLAMPING MODULE	CONTACT WASHER
<b>ADE 1F NPT</b>									
1/4"	CAP818404	CAP239014	CAP229014	-	-	-	CAP506040	CAP810434	-
3/8"	CAP818594	CAP239038	CAP229038	CAP280114	CAP567044	CAP290114	CAP506040	CAP810434	-
3/8"	CAP818504	CAP239038	CAP229038	CAP280114	CAP567044	CAP290114	CAP506050	CAP810534	-
1/2"	CAP818674	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506040	CAP810434	-
1/2"	CAP818694	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506050	CAP810534	-
1/2"	CAP818604	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506060	CAP810634	-
3/4"	CAP818774	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506050	CAP810534	-
3/4"	CAP818794	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506060	CAP810634	-
3/4"	CAP818704	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506070	CAP810734	-
1"	CAP818894	CAP239010	CAP229010	CAP280144	CAP567104	CAP290144	CAP506070	CAP810734	-
1"	CAP818804	CAP239010	CAP229010	CAP280144	CAP567104	CAP290144	CAP506080	CAP810834	-
1-1/4"	CAP818994	CAP239114	CAP229114	CAP280154	CAP567134	CAP290154	CAP506080	CAP810834	-
1-1/4"	CAP818904	CAP239114	CAP229114	CAP280154	CAP567134	CAP290154	CAP506090	CAP810934	-
1-1/2"	CAP819094	CAP239112	CAP229112	CAP280164	CAP567154	CAP290164	CAP506090	CAP810934	-
1-1/2"	CAP819004	CAP239112	CAP229112	CAP280164	CAP567154	CAP290164	CAP506100	CAP811034	-
2"	CAP819294	CAP239020	CAP229020	CAP280174	CAP567174	CAP290174	CAP506110	CAP811134	-
2"	CAP819204	CAP239020	CAP229020	CAP280174	CAP567174	CAP290174	CAP506120	CAP811234	-
2-1/2"	CAP819494	CAP239212	CAP229212	CAP280184	CAP567194	CAP290184	CAP506120	CAP811234	-
2-1/2"	CAP819404	CAP239212	CAP229212	CAP280184	CAP567194	CAP290184	CAP506130	CAP811334	-
3"	CAP819594	CAP239300	CAP229300	CAP280194	CAP567204	CAP290194	CAP506140	CAP811434	-
3"	CAP819504	CAP239300	CAP229300	CAP280194	CAP567204	CAP290194	CAP506150	CAP811534	-
3-1/2"	CAP819604	CAP239312	CAP229312	-	CAP567214	-	CAP506160	CAP811634	-
<b>ADE 4F NPT</b>									
1/4"	CAP848404	CAP239014	CAP229014	-	-	-	CAP506050	CAP810534	CAP560530
3/8"	CAP848594	CAP239038	CAP229038	CAP280114	CAP567044	CAP290114	CAP506050	CAP810534	CAP560530
3/8"	CAP848504	CAP239038	CAP229038	CAP280114	CAP567044	CAP290114	CAP506060	CAP810634	CAP560630
1/2"	CAP848674	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506050	CAP810534	CAP560530
1/2"	CAP848694	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506060	CAP810634	CAP560630
1/2"	CAP848604	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506070	CAP810734	CAP560730
3/4"	CAP848774	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506060	CAP810634	CAP560630
3/4"	CAP848794	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506070	CAP810734	CAP560730
3/4"	CAP848704	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506080	CAP810834	CAP560830
1"	CAP848894	CAP239010	CAP229010	CAP280144	CAP567104	CAP290144	CAP506080	CAP810834	CAP560830
1"	CAP848804	CAP239010	CAP229010	CAP280144	CAP567104	CAP290144	CAP506090	CAP810934	CAP560930
1-1/4"	CAP848994	CAP239114	CAP229114	CAP280154	CAP567134	CAP290154	CAP506090	CAP810934	CAP560930
1-1/4"	CAP848904	CAP239114	CAP229114	CAP280154	CAP567134	CAP290154	CAP506100	CAP811034	CAP561030
1-1/2"	CAP849094	CAP239112	CAP229112	CAP280164	CAP567154	CAP290164	CAP506100	CAP811034	CAP561030
1-1/2"	CAP849004	CAP239112	CAP229112	CAP280164	CAP567154	CAP290164	CAP506110	CAP811134	CAP561130
2"	CAP849294	CAP239020	CAP229020	CAP280174	CAP567174	CAP290174	CAP506120	CAP811234	CAP561230
2"	CAP849204	CAP239020	CAP229020	CAP280174	CAP567174	CAP290174	CAP506130	CAP811334	CAP561330
2-1/2"	CAP849494	CAP239212	CAP229212	CAP280184	CAP567194	CAP290184	CAP506130	CAP811334	CAP561330
2-1/2"	CAP849404	CAP239212	CAP229212	CAP280184	CAP567194	CAP290184	CAP506140	CAP811434	CAP561430
3"	CAP849594	CAP239300	CAP229300	CAP280194	CAP567204	CAP290194	CAP506150	CAP811534	CAP561530
3"	CAP849504	CAP239300	CAP229300	CAP280194	CAP567204	CAP290194	CAP506160	CAP811634	CAP561630
3-1/2"	CAP849604	CAP239312	CAP229312	-	CAP567214	-	CAP506170	-	CAP561630
4"	CAP849704	-	-	-	-	-	CAP506170	-	-
<b>ADE 6F NPT</b>									
3/8"	CAP967594	CAP239038	CAP229038	CAP280114	CAP567044	CAP290114	CAP506050	CAP810534	-
1/2"	CAP967674	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506050	CAP810534	-
1/2"	CAP967694	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506060	CAP810634	-
1/2"	CAP967604	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506070	CAP810734	-
3/4"	CAP967794	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506070	CAP810734	-
3/4"	CAP967704	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506080	CAP810834	-
1"	CAP967894	CAP239010	CAP229010	CAP280144	CAP567104	CAP290144	CAP506080	CAP810834	-
1"	CAP967804	CAP239010	CAP229010	CAP280144	CAP567104	CAP290144	CAP506090	CAP810934	-
1-1/4"	CAP967994	CAP239114	CAP229114	CAP280154	CAP567134	CAP290154	CAP506090	CAP810934	-
1-1/4"	CAP967904	CAP239114	CAP229114	CAP280154	CAP567134	CAP290154	CAP506100	CAP811034	-
1-1/2"	CAP968094	CAP239112	CAP229112	CAP280164	CAP567154	CAP290164	CAP506100	CAP811034	-
2"	CAP968294	CAP239020	CAP229020	CAP280174	CAP567174	CAP290174	CAP506110	CAP811134	-
<b>ADE 6FC NPT</b>									
3/8"	CAP974594	CAP239038	CAP229038	CAP280114	CAP567044	CAP290114	CAP506050	CAP810534	-
1/2"	CAP971674	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506050	CAP810534	-
1/2"	CAP971694	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506060	CAP810634	-
1/2"	CAP971604	CAP239012	CAP229012	CAP280124	CAP567064	CAP290124	CAP506070	CAP810734	-
3/4"	CAP971794	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506070	CAP810734	-
3/4"	CAP971704	CAP239034	CAP229034	CAP280134	CAP567084	CAP290134	CAP506080	CAP810834	-
1"	CAP971894	CAP239010	CAP229010	CAP280144	CAP567104	CAP290144	CAP506080	CAP810834	-
1"	CAP971804	CAP239010	CAP229010	CAP280144	CAP567104	CAP290144	CAP506090	CAP810934	-
1-1/4"	CAP971994	CAP239114	CAP229114	CAP280154	CAP567134	CAP290154	CAP506090	CAP810934	-
1-1/4"	CAP971904	CAP239114	CAP229114	CAP280154	CAP567134	CAP290154	CAP506100	CAP811034	-
1-1/2"	CAP972094	CAP239112	CAP229112	CAP280164	CAP567154	CAP290164	CAP506100	CAP811034	-
2"	CAP972004	CAP239020	CAP229020	CAP280174	CAP567174	CAP290174	CAP506110	CAP811134	-

Metal parts: STAINLESS, change the last number by 9



# Selection table for cable glands

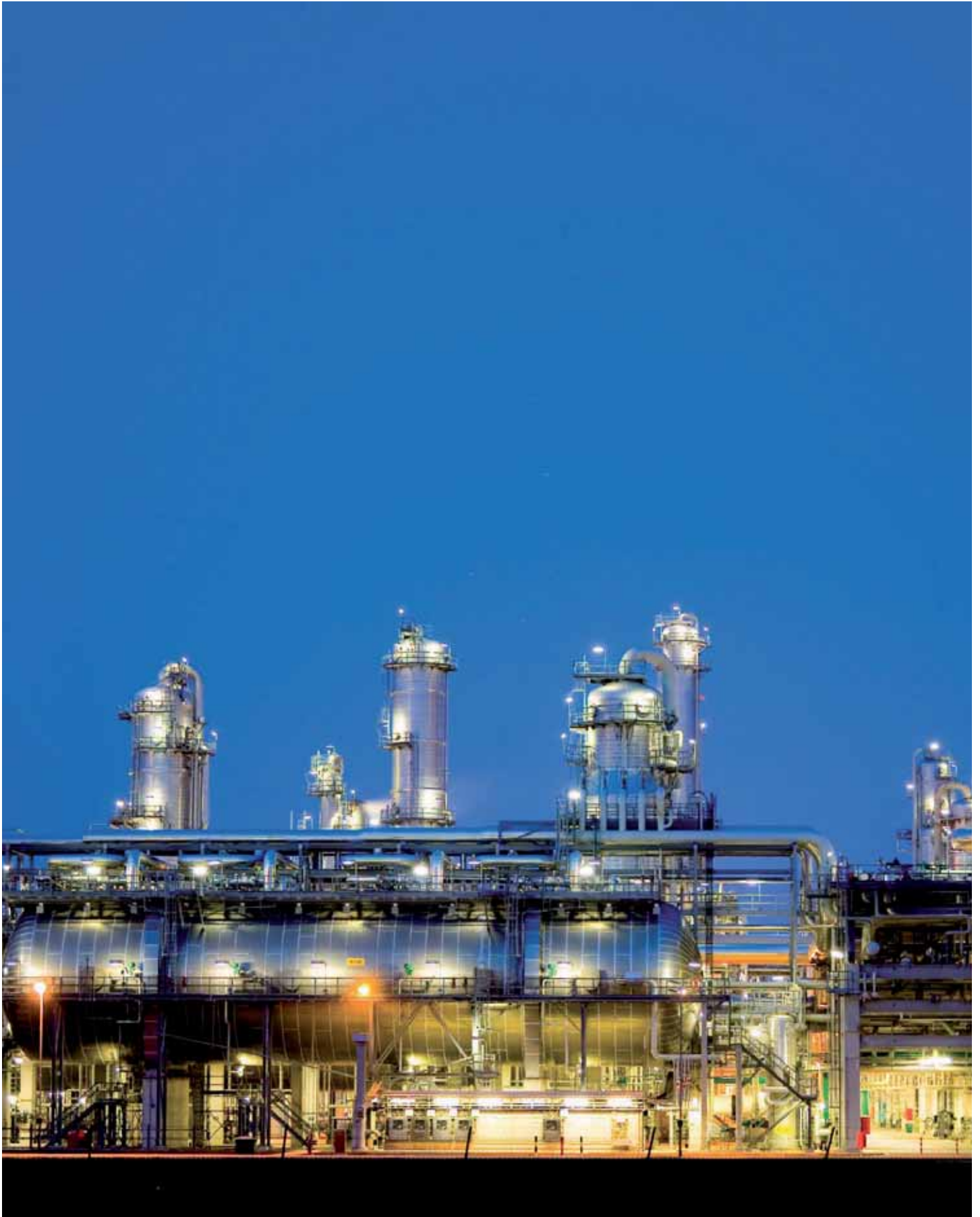
CABLE GLAND	catalogue PAGES	ILLUSTRATION	CABLE TYPE
ADE 1 F	Page 162		Non-armoured and armoured (does not terminate the armour)
ADE 1 F WITH INTEGRATED CLAMPING	Page 163		Non-armoured and armoured (does not terminate the armour)
ADE 4 F	Page 164		SWA, SWB, STA, braided marine shipboard and lead sheathed (with addition of earthing washer)
ADE 6F	Page 165		SWA, SWB, STA, braided marine shipboard
ADE 1FC	Page 166		Non-armoured
ADE 6FC	Page 168		SWA, SWB, STA, braided marine shipboard
ADE 1FCC	Page 167		Non-armoured
ADE 1FLC	Page 170		Non-armoured
ADE 6FLC	Page 171		SWA, SWB, STA, braided marine shipboard
NEWCAP MS	Page 174		Not armed or armoured by braid
NEWCAP CT	Page 175		Not armed or armoured by braid
ADE 4I	Page 178		SWA, SWB, STA, braided marine shipboard

CABLE GLAND TYPE	STANDARD material	CERTIFICATION	PROTECTION TYPE
elastomer ring	nickel-plated brass		Flameproof and increased safety
elastomer ring	nickel-plated brass		Flameproof and increased safety
elastomer ring	nickel-plated brass		Flameproof and increased safety
elastomer cone	nickel-plated brass		Flameproof and increased safety
Barrier type	nickel-plated brass		Flameproof and increased safety
Barrier type	nickel-plated brass		Flameproof and increased safety
Barrier type	nickel-plated brass		Flameproof and increased safety
Barrier type	nickel-plated brass		Flameproof and increased safety
Barrier type	nickel-plated brass		Flameproof and increased safety
elastomer ring	nickel-plated brass		Increased safety
elastomer ring	nickel-plated brass		Increased safety
elastomer ring	nickel-plated brass		Industrial

# SELECTION TABLE

ACCESSORIES	catalogue PAGES	STANDARD MATERIAL	ILLUSTRATION	CERTIFICATION
<b>Locknut</b>	<b>Page 180</b>	nickel-plated brass or stainless steel 316L		CE  
<b>Serrated washer</b>	<b>Page 186</b>	stainless steel 316L		CE
<b>Earth tag</b>	<b>Page 182</b>	nickel-plated brass		CE  
<b>Shroud</b>	<b>Page 181</b>	PVC		CE
<b>Reducer Adaptors</b>	<b>Page 183</b>	nickel-plated brass or stainless steel 316L		CE  
<b>Gasket</b>	<b>Page 186</b>	neoprene or fiber		CE







## Cable gland type

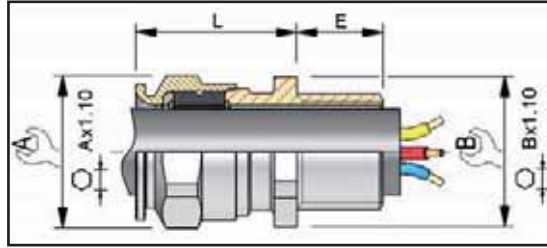
For unarmoured cable

### Cable type

Non-armoured cable or armoured cable (does not terminate the armour)

### Certifications and Compliances

- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD /Ex II 2 GD
- IECEx LCI 05.0004X
- cULus Listed for Class I Zone 2 AEx e II/Ex e II
- cULus Marine Listed for Class I Zone 1 AEx e II /Ex e II
- NEMA 4X and IP68
- CEPEL-EX-558/05X
- GOST-R POCC FR.B02011
- NEPSI N° GYJ071336U & GYJ071337U
- ABS approbation: N° 10-HS 577243-PDA / P 1836754-X



### Features:

- Standard material is nickel-plated brass for superior corrosion resistance.
- Provides a weatherproof seal on the outer sheath of the cable.
- Standard neoprene seal suitable for use in operating temperatures ATEX -60°C to +100°C.
- Available with optional silicone seal for extreme temperatures.
- Available with metric or NPT threads.
- See page 172 for additional clamping.
- See pages 180 to 186 for related accessories.

#### ORDERING EXAMPLE:

CAP81640 4	
Gland Type	Options

#### OPTIONS (replace last digit with option number):

9	Stainless steel (316L)
8	Bronze
7	Aluminum
5	Silicone bague sealing ring with temperature range of -70°C to +220°C

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO/ (NPT)	OUTER SHEATH		L	HEXAGON	
	ISO	Reference	NPT	Reference		Min	Max		A	B
4	12*	CAP816404	1/4"*	CAP818404	15 (12.0)	4.0	8.0	20	15	15
4	16*	CAP816594	3/8"*	CAP818594	15 (12.0)	4.0	8.5	20	15	19
5	16*	CAP816504	3/8"*	CAP818504	15 (12.0)	6.0	12.0	22	19	19
4	20	CAP816674	1/2"	CAP818674	15 (20.2)	4.0	8.5	20	15	24
5	20	CAP816694	1/2"	CAP818694	15 (20.2)	6.0	12.0	22	19	24
6	20	CAP816604	1/2"	CAP818604	15 (20.2)	8.5	16.0	25	24	24
5	25	CAP816774	3/4"	CAP818774	15 (20.2)	6.0	12.0	22	19	30
6	25	CAP816794	3/4"	CAP818794	15 (20.2)	8.5	16.0	25	24	30
7	25	CAP816704	3/4"	CAP818704	15 (20.2)	12.0	21.0	27	30	30
7	32	CAP816894	1"	CAP818894	15 (25.3)	12.0	21.0	27	30	41
8	32	CAP816804	1"	CAP818804	15 (25.3)	16.0	27.5	34	41	41
8	40	CAP816994	1-1/4"	CAP818994	15 (26.0)	16.0	27.5	34	41	48
9	40	CAP816904	1-1/4"	CAP818904	15 (26.0)	21.0	34.0	36	48	48
9	50	CAP817094	1-1/2"	CAP819094	15 (26.5)	21.0	34.0	36	48	55
10	50	CAP817004	1-1/2"	CAP819004	15 (26.5)	27.0	41.0	39	55	55
11	63	CAP817294	2"	CAP819294	17 (27.2)	33.0	48.0	41	64	64
12	63	CAP817204	2"	CAP819204	17 (27.2)	40.0	56.0	43	72	72
12	75	CAP817394	2-1/2"	CAP819494	18 (40.5)	40.0	56.0	43	72	85
13	75	CAP817304	2-1/2"	CAP819404	18 (40.5)	47.0	65.0	49	85	85
14	90	CAP817594	3"	CAP819594	22 (42.0)	54.0	74.0	56	95	95
15	90	CAP817504	3"	CAP819504	22 (42.0)	63.0	78.0	61	110	110
16	110	CAP817794	3-1/2"	CAP819604	22 (43.2)	72.0	92.0	62	120	120

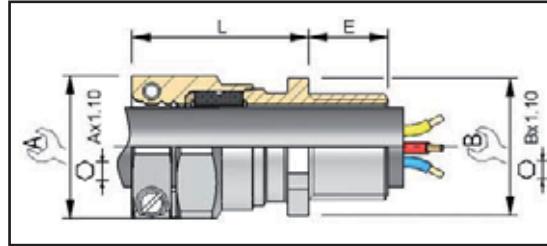
\* Uncertified UL // sizes n°4 et 5, no UL marine

# ADE 1F

with integrated clamping



**COOPER** Safety



## Cable gland type

For unarmoured cable

## Cable type

Non-armoured cable or armoured cable  
(does not terminate the armour)

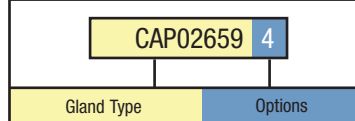
## Certifications and Compliances

- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD /Ex II 2 GD
- IECEx LCI 05.0004X
- cULus Listed for Class I Zone 2 AEx e II/Ex e II
- cULus Marine Listed for Class I Zone 1 AEx e II /Ex e II
- NEMA 4X and IP68
- CEPEL-EX-558/05X
- GOST-R POC FR.B02011
- NEPSI N° GYJ071336U & GYJ071337U
- ABS approbation:  
N° 10-HS 577243-PDA / P 1836754-X

## Features:

- Standard material is nickel-plated brass for superior corrosion resistance.
- Provides a weatherproof seal on the outer sheath of the cable.
- Provides the clamping on the external sheath of the cable.
- Standard neoprene seal suitable for use in operating temperatures ATEX -60°C to +100°C.
- Available with optional silicone seal for extreme temperatures.
- Available with metric or NPT threads.
- See pages 180 to 186 for related accessories.

## ORDERING EXAMPLE:



## OPTIONS (replace last digit with option number):

- |   |   |
|---|---|
| 9 | Stainless steel (316L)  |
| 8 | Bronze  |
| 7 | Aluminum  |
| 5 | Silicone bague sealing ring with temperature range of -70°C to +220°C |

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO/ (NPT)	EXTERNAL SHEATH		L	HEXAGON	
	ISO	Reference	NPT	Reference		Min	Max		A	B
4	16*	CAP026594			15	4.0	8.5	20	20	19
5	16*	CAP026504			15	6.0	12.0	22	24	19
4	20	CAP026674	1/2"	CAP028674	15 (20.2)	4.0	8.5	20	20	24
5	20	CAP026694	1/2"	CAP028694	15 (20.2)	6.0	12.0	22	24	24
6	20	CAP026604	1/2"	CAP028604	15 (20.2)	8.5	16.0	25	27	24
5	25	CAP026774	3/4"	CAP028774	15 (20.2)	6.0	12.0	22	24	30
6	25	CAP026794	3/4"	CAP028794	15 (20.2)	8.5	16.0	25	27	30
7	25	CAP026704	3/4"	CAP028704	15 (20.2)	12.0	21.0	27	32	30
7	32	CAP026894			15 (25.3)	12.0	21.0	27	32	36
8	32	CAP026804			15 (25.3)	16.0	27.5	34	41	41
8	40	CAP026994			15 (26.0)	16.0	27.5	34	41	44
9	40	CAP026904			15 (26.0)	21.0	34.0	36	48	48

\* Uncertified UL // sizes n°4 et 5, no UL marine



## Cable gland type

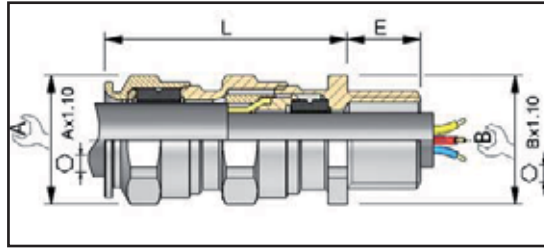
For armoured cable

### Cable type

Steel wire armoured cable, steel wire braided, steel tape armoured, braided marine shipboard and lead sheathed (with addition of earthing washer)

### Certifications and Compliances

- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD/Ex II 2 GD
- IECEx LCI 05.0004X
- cULus listed for Class I Zone 2 AEx e II/Ex e II
- cULus Marine listed for Class I Zone 1 AEx e II/ Ex e II
- NEMA 4X and IP68
- CEPEL cepel-EX-559/05X
- GOST-R POC FR.B02011
- NEPSI N° GYJ071336U & GYJ071337U
- ABS approbation:  
N° 10-HS 577243-PDA / P 1836754-X



### Features:

- Standard material is nickel-plated brass for superior corrosion resistance.
- Armour clamping and bonding with no reversible components for easy installation, minimizing error.
- Provides flameproof seal on inner sheath of cable.
- Provides a weatherproof seal on the outer sheath of the cable.
- Standard neoprene seal suitable for use in operating temperatures ATEX -60°C to +100°C.
- Available with optional silicone seal for extreme temperatures.
- Available with metric or NPT threads.
- See page 172 for additional clamping.
- See pages 180 to 186 for related accessories.

#### ORDERING EXAMPLE:

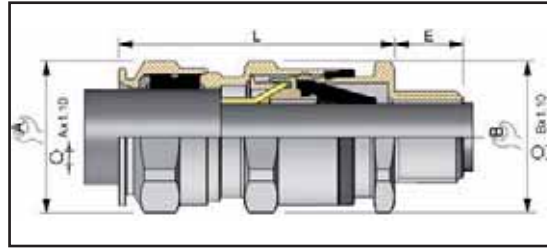
CAP84640 4	
Gland Type	Options

#### OPTIONS (replace last digit with option number):

9	Stainless steel (316L)
8	Bronze
7	Aluminum
5	Silicone bague sealing ring with temperature range of -70°C to +220°C

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO / (NPT)	CABLE				THICKNESS OF ARMOUR MAX	L	HEXAGON	
	ISO	Reference	NPT	Reference		INNER SHEATH		OUTER SHEATH				A	B
						Min	Max	Min	Max				
5	12*	CAP846404	1/4**	CAP848404	15 (12.0)	4.0	8.0	6.0	12.0	0.9	36	19	19
5	16*	CAP846594	3/8**	CAP848594	15 (12.0)	4.0	8.5	6.0	12.0	0.9	36	19	19
6	16*	CAP846504	3/8**	CAP848504	15 (12.0)	6.0	12.0	8.5	16.0	1.25	42	24	24
5	20	CAP846674	1/2"	CAP848674	15 (20.2)	4.0	8.5	6.0	12.0	0.9	36	19	24
6	20	CAP846694	1/2"	CAP848694	15 (20.2)	6.0	12.0	8.5	16.0	1.25	42	24	24
7	20	CAP846604	1/2"	CAP848604	15 (20.2)	8.5	16.0	12.0	21.0	1.25	46	30	30
6	25	CAP846774	3/4"	CAP848774	15 (20.2)	6.0	12.0	8.5	16.0	1.25	42	19	30
7	25	CAP846794	3/4"	CAP848794	15 (20.2)	8.5	16.0	12.0	21.0	1.25	46	24	30
8	25	CAP846704	3/4"	CAP848704	15 (20.2)	12.0	20.5	16.0	27.5	1.6	56	30	41
8	32	CAP846894	1"	CAP848894	15 (25.3)	12.0	21.0	16.0	27.5	1.6	56	41	41
9	32	CAP846804	1"	CAP848804	15 (25.3)	16.0	27.5	21.0	34.0	1.6	63	41	48
9	40	CAP846994	1-1/4"	CAP848994	15 (26.0)	16.0	27.5	21.0	34.0	1.6	63	48	48
10	40	CAP846904	1-1/4"	CAP848904	15 (26.0)	21.0	34.0	27.0	41.0	2	68	48	55
10	50	CAP847094	1-1/2"	CAP849094	16 (26.5)	21.0	34.0	27.0	41.0	2	68	55	55
11	50	CAP847004	1-1/2"	CAP849004	16 (26.5)	27.0	41.0	33.0	48.0	2.5	74	55	64
12	63	CAP847294	2"	CAP849294	17 (27.2)	27.0	41.0	33.0	48.0	2.5	77	64	72
13	63	CAP847204	2"	CAP849204	17 (27.2)	33.0	48.0	40.0	56.0	2.5	85	72	85
13	75	CAP847394	2-1/2"	CAP849494	18 (40.5)	40.0	56.0	47.0	65.0	2.5	85	85	85
14	75	CAP847304	2-1/2"	CAP849404	18 (40.5)	47.0	65.0	54.0	74.0	2.5	92	85	95
15	90	CAP847594	3"	CAP849594	22 (42.0)	54.0	74.0	63.0	83.0	3.15	104	95	110
16	90	CAP847504	3"	CAP849504	22 (42.0)	63.0	82.0	72.0	93.0	3.15	108	110	120
16	90	CAP847574	3-1/2"	CAP849604	N/A (43.2)	63.0	82.0	72.0*	93.0*	3.15	108	120	120
17	110	CAP847794	4"	CAP849704	22 (44.5)	72.0	92.0	85.0	107.0	3.15	115	135	135

\* Uncertified UL // sizes n°4 et 5, no UL marine



**Cable gland type**  
For armoured cable

**Cable type**

Steel wire armoured cable, steel wire braided, steel tape armoured, braided marine shipboard

**Certifications and Compliances**

- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD/Ex II 2 GD
- IECEx LCI 05.0004X
- cULus listed for Class I Zone 2 AEx e II/Ex e II
- cULus Marine listed for Class I Zone 1 AEx e II Ex e II
- NEMA 4X et IP68
- CEPEL (pending)
- GOST-R : POCC FR Bo2011
- NEPSI (pending)
- ABS approbation : N° 10-HS 577243-PDA / P 1836754-X

**Features:**

- Standard material is nickel-plated brass for superior corrosion resistance.
- Armour clamping and bonding with no reversible components for easy installation, minimizing error.
- Fully inspectable armour clamping and crimping including deluge boot.
- Provides flameproof seal on inner sheath of cable.
- Diaphragm seal for cold flow cables.
- Provides a weatherproof seal on the outer sheath of the cable.
- Deluge boot provides enhanced protection from water ingress.
- Standard neoprene seal suitable for use in operating temperatures ATEX -60°C to +100°C.
- Available with metric or NPT threads.
- See page 172 for additional clamping.
- See pages 180 to 186 for related accessories.

**ORDERING EXAMPLE:**

CAP96559 4

Gland Type

Options

**OPTIONS** (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO / (NPT)	CABLE				THICKNESS OF ARMOUR MAX	L	HEXAGON	
	ISO	Reference	NPT	Reference		INNER SHEATH		OUTER SHEATH				A	B
						Min	Max	Min	Max				
5	16*	CAP965594	3/8**	CAP967594	15 (12.0)	3.0	7.5	6.0	12.0	0.9	46	19	19
5	20	CAP965674	1/2"	CAP967674	15 (20.2)	3.0	7.5	6.0	12.0	0.9	46	19	24
6	20	CAP965694	1/2"	CAP967694	15 (20.2)	6.5	11.0	8.5	16.0	1.25	53	24	24
7	20	CAP965604	1/2"	CAP967604	15 (20.2)	9.0	14.5	12.0	21.0	1.25	59	30	30
7	25	CAP965794	3/4"	CAP967794	15 (20.2)	9.0	14.5	12.0	21.0	1.25	59	30	30
8	25	CAP965704	3/4"	CAP967704	15 (20.2)	12.0	19.5	16.0	27.5	1.6	74.5	41	41
8	32	CAP965894	1"	CAP967894	15 (25.3)	12.0	19.5	16.0	27.5	1.6	74.5	41	41
9	32	CAP965804	1"	CAP967804	15 (25.3)	17.5	26.0	21.0	34.0	1.6	83.5	48	48
9	40	CAP965994	1-1/4"	CAP967994	15 (26.0)	17.5	26.0	21.0	34.0	1.6	83.5	48	48
10	40	CAP965904	1-1/4"	CAP967904	15 (26.0)	23.0	33.0	27.0	41.0	2	92	55	55
10	50	CAP966094	1-1/2"	CAP968094	16 (26.5)	23.0	33.0	27.0	41.0	2	92	55	55
11	50	CAP966004	2"	CAP968294	16 (27.2)	28.5	41.0	33.0	48.0	2.5	104	64	64

\* Uncertified UL // sizes n°4 et 5, no UL marine

For larger sizes, refer to the ADE 4F. See page 164

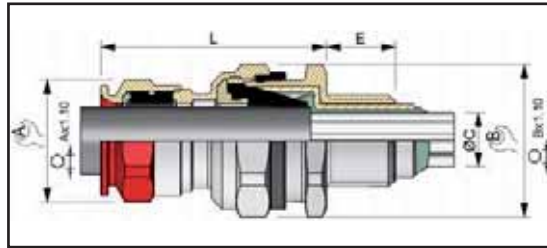


**Cable gland type**  
For unarmoured cable • Barrier gland

**Cable type**  
Non-armoured cable

**Certifications and Compliances**

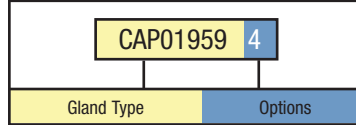
- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD /Ex II 2 GD
- IECEx LCI 05.0004X
- NEMA 4X and IP68
- ABS approbation : N° 10-HS 577243-PDA / P 1836754-X



**Features:**

- Standard material is nickel-plated brass for superior corrosion resistance
- Provides flameproof seal on the strands and the outer sheath of the unarmoured cables.
- Signalitique: red cap nut.
- Neoprene seal and resin certify in the range of temperature ATEX -60°C to +80°C.
- See page 172 for additional clamping.
- Available with metric or NPT threads.
- See pages 180 to 186 for related accessories.

**ORDERING EXAMPLE:**



**OPTIONS** (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO / (NPT)	CABLE					L	HEXAGON	
	ISO	Reference	NPT	Reference		INNER SHEATH		CONDUCTOR				A	B
						Min	Max	Ø Max	Max number	Ø			
4	16	CAP019594	3/8"	CAP011594	15 (12)	4	7,5	6,5	6 X	Ø1,5	36	15	19
4	20	CAP019674	1/2"	CAP011674	15 (22,2)	4	7,5	6,5	6 X	Ø1,5	36	15	24
5	20	CAP019694	1/2"	CAP011694	15 (22,2)	6,5	11	9,5	6 X	Ø2,5	42	19	24
6	20	CAP019604	1/2"	CAP011604	15 (22,2)	9	14,5	12	10 X	Ø2,5	48	24	30
6	25	CAP019794	3/4"	CAP011794	15 (22,5)	9	14,5	12	10 X	Ø2,5	48	24	30
7	25	CAP019704	3/4"	CAP011704	15 (22,5)	12	19,5	17	21 X	Ø2,5	58	30	41
7	32	CAP019894	1"	CAP011894	15 (27,3)	12	19,5	17	21 X	Ø2,5	58	30	41
8	32	CAP019804	1"	CAP011804	15 (27,3)	17,5	26	23	42 X	Ø2,5	70	41	48
8	40	CAP019994	1 1/4"	CAP011994	15 (28)	17,5	26	23	42 X	Ø2,5	70	41	48
9	40	CAP019904	1 1/4"	CAP011904	15 (28)	23	33	29	60 X	Ø2,5	79	48	55
9	50	CAP019094	1 1/2"	CAP011094	16 (28,5)	23	33	29	60 X	Ø2,5	79	48	55
10	50	CAP019004	2"	CAP011004	16 (29,2)	28,5	41	36,5	80 X	Ø3	88	55	64
10	63	CAP019204	/	/	16	28,5	41	36,5	80 X	Ø3	88	55	67



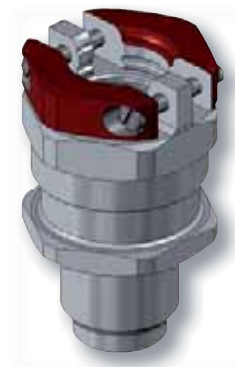
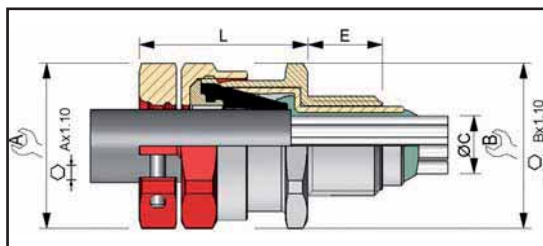


**Cable gland type**  
For unarmoured cable • Barrier gland

**Cable type**  
Non-armoured cable

**Certifications and Compliances**

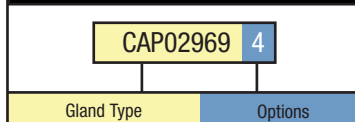
- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD /Ex II 2 GD
- IECEx LCI 05.0004X
- NEMA 4X IP68
- ABS approbation : N° 10-HS 577243-PDA / P 1836754-X



**Features:**

- Standard material is nickel-plated brass for superior corrosion resistance.
- Provides flameproof seal on the strands and the external sheath of the non-armoured cables.
- Provides the clamping of the non-armoured cables.
- Signalitique: red cap nut.
- Provides the sealing on the external sheath of the not armed cables.
- Neoprene seal and resin certify in the range of temperature ATEX -60°C to +80°C.
- Available with metric or NPT threads.
- See pages 180 to 186 for related accessories.

**ORDERING EXAMPLE:**



**OPTIONS** (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO / (NPT)	CABLE					L	HEXAGON	
	ISO	Reference	NPT	Reference		INNER SHEATH		CONDUCTOR		A		B	
						Min	Max	Ø Max	Max number				
4	16	CAPO29594	3/8"	CAPO21594	15 (12)	4	7,5	6,5	6 X	Ø1,5	36	19	19
4	20	CAPO29674	1/2"	CAPO21674	15 (22,2)	4	7,5	6,5	6 X	Ø1,5	36	19	24
5	20	CAPO29694	1/2"	CAPO21694	15 (22,2)	6,5	11	9,5	6 X	Ø2,5	42	24	24
6	20	CAPO29604	1/2"	CAPO21604	15 (22,2)	9	14,5	12	10 X	Ø2,5	48	30	30
6	25	CAPO29794	3/4"	CAPO21794	15 (22,5)	9	14,5	12	10 X	Ø2,5	48	30	30
7	25	CAPO29704	3/4"	CAPO21704	15 (22,5)	12	19,5	17	21 X	Ø2,5	58	41	41
7	32	CAPO29894	1"	CAPO21894	15 (27,3)	12	19,5	17	21 X	Ø2,5	58	41	41
8	32	CAPO29804	1"	CAPO21804	15 (27,3)	17,5	26	23	42 X	Ø2,5	70	48	48
8	40	CAPO29994	1 1/4"	CAPO21994	15 (28)	17,5	26	23	42 X	Ø2,5	70	48	48
9	40	CAPO29904	1 1/4"	CAPO21904	15 (28)	23	33	29	60 X	Ø2,5	79	55	55
9	50	CAPO29094	1 1/2"	CAPO21094	16 (28,5)	23	33	29	60 X	Ø2,5	79	55	55
10	50	CAPO29004	2"	CAPO21004	16 (29,2)	28,5	41	36,5	80 X	Ø3	88	64	64
10	63	CAPO29204	/	/	16	28,5	41	36,5	80 X	Ø3	88	64	67



### Cable gland type

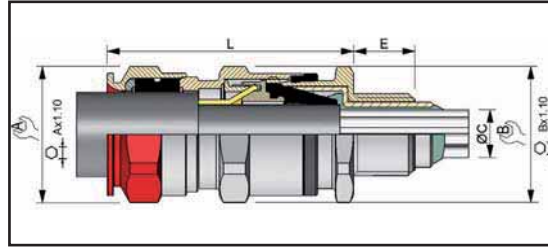
For armoured cable • Barrier gland

### Cable type

Steel wire armoured cable, steel wire braided, steel tape armoured, braided marine shipboard

### Certifications and Compliances

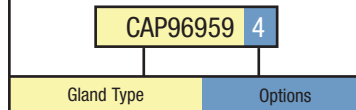
- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD/Ex II 2 GD
- IECEx LCI 05.0004X
- cULus listed for Class I Zone 2 AEx e II/Ex e II
- cULus Marine listed for Class I Zone 1 AEx e II Ex e II
- NEMA 4X et IP68
- CEPEL (pending)
- GOST-R : POCC FR Bo2011
- NEPSI (pending)
- ABS approbation : N° 10-HS 577243-PDA / P 1836754-X



### Features:

- Standard material is nickel-plated brass for superior corrosion resistance.
- Armour clamping and bonding with no reversible components for easy installation, minimizing error.
- Fully inspectable armour clamping and crimping including deluge boot.
- Provides flameproof seal on the strands and the inner sheath of the armoured cables.
- Provides the sealing on the outer sheath of the armoured cables
- Signalitique: red cap nut.
- Neoprene seal and resin certify in the range of temperature ATEX -60°C to +80°C.
- Available with metric or NPT threads.
- See page 172 for additional clamping.
- See pages 180 to 186 for related accessories.

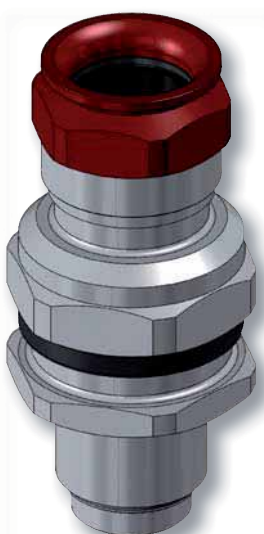
### ORDERING EXAMPLE:



### OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO / (NPT)	CABLE						L	HEXAGON		
	ISO	Reference	NPT	Reference		INNER SHEATH		OUTER SHEATH		CONDUCTOR			A	B	
						Min	Max	Min	Max	Ø Max C	Max number				
5	16	CAP969594	3/8"	CAP974594	15 (12.0)	4	7.5	6.0	12.0	6.5	6X	Ø1,5	46	19	19
5	20	CAP969674	1/2"	CAP971674	15 (20.2)	4	7.5	6.0	12.0	6.5	6X	Ø1,5	46	19	24
6	20	CAP969694	1/2"	CAP971694	15 (20.2)	6.5	11	8.5	16.0	9.5	6X	Ø2,5	53	24	24
7	20	CAP969604	1/2"	CAP971604	15 (20.2)	9	14.5	12.0	21.0	12	10X	Ø2,5	59	30	30
7	25	CAP969794	3/4"	CAP971794	15 (20.5)	9	14.5	12.0	21.0	12	10X	Ø2,5	59	30	30
8	25	CAP969704	3/4"	CAP971704	15 (20.5)	12	19.5	16.0	27.5	17	21X	Ø2,5	74.5	41	41
8	32	CAP969894	1"	CAP971894	15 (25.3)	12	19.5	16.0	27.5	17	21X	Ø2,5	74.5	41	41
9	32	CAP969804	1"	CAP971804	15 (25.3)	17.5	28	21.0	34.0	23	42X	Ø2,5	83.5	48	48
9	40	CAP969994	1-1/4"	CAP971994	15 (26.0)	17.5	28	21.0	34.0	23	42X	Ø2,5	83.5	48	48
10	40	CAP969904	1-1/4"	CAP971904	15 (26.0)	23	33	27.0	41.0	29	60X	Ø2,5	92	55	55
10	50	CAP970094	1-1/2"	CAP972094	16 (26.5)	23	33	27.0	41.0	29	60X	Ø2,5	92	55	55
11	50	CAP970004	2"	CAP972004	16 (27.2)	28.5	41	33.0	48.0	36.5	80X	Ø3	104	64	64



*The cable glands 1 FLC and 6 FLC allow a fast wiring when the standards for explosive atmospheres require an barrier cable gland.*

*As part of a project or facility with a large number of cables gland to assemble, the range 1 FLC and 6 FLC allows the installation prewire and then to resin the cable glands with a fluid resin ready employment.*

*The use of bicomponent resin prevents fluid handling, the product is properly measured and is not polluted. Wiring time is reduced for at least 30%.*



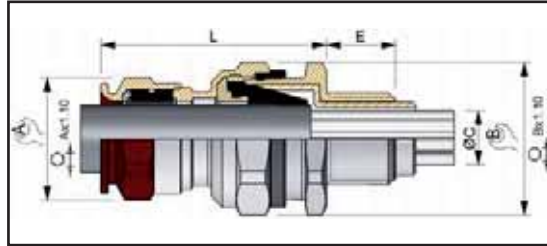


**Cable gland type**  
For unarmoured cable

**Cable type**  
Non-armoured cable

**Certifications and Compliances**

- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD /Ex II 2 GD
- IECEx LCI 05.0004X
- NEMA 4X and IP68
- ABS approbation : N° 10-HS 577243-PDA / P 1836754-X



**Features:**

- Standard material is nickel-plated brass for superior corrosion resistance
- Provides flameproof seal on the strands and the outer sheath of the unarmoured cables.
- Signalitique: red cap nut.
- Neoprene seal and resin certify in the range of temperature ATEX -60°C to +80°C.
- Available with metric or NPT threads.
- See page 172 for additional clamping.
- See pages 180 to 186 for related accessories.

**ORDERING EXAMPLE:**

CAP51959 4	
Gland Type	Options

**OPTIONS** (replace last digit with option number):

9	Stainless steel (316L)
8	Bronze
7	Aluminum

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO / (NPT)	CABLE					L	HEXAGON		COND
	ISO	Reference	NPT	Reference		INNER SHEATH		CONDUCTOR				A	B	
						Min	Max	Ø Max	Max number					
4	16	CAP519594	3/8	CAP511594	15 (12)	4	7,5	6,5	5 X	Ø1,5	36	15	19	40
4	20	CAP519674	1/2	CAP511674	15 (22,2)	4	7,5	6,5	5 X	Ø1,5	36	15	24	40
5	20	CAP519694	1/2	CAP511694	15 (22,2)	6,5	11	9,5	5 X	Ø2,5	42	19	24	40
6	20	CAP519604	1/2	CAP511604	15 (22,2)	9	14,5	12	8 X	Ø2,5	48	24	30	40
6	25	CAP519794	3/4	CAP511794	15 (22,5)	9	14,5	12	8 X	Ø2,5	48	24	30	40
7	25	CAP519704	3/4	CAP511704	15 (22,5)	12	19,5	17	12 X	Ø2,5	58	30	41	30



### Cable gland type

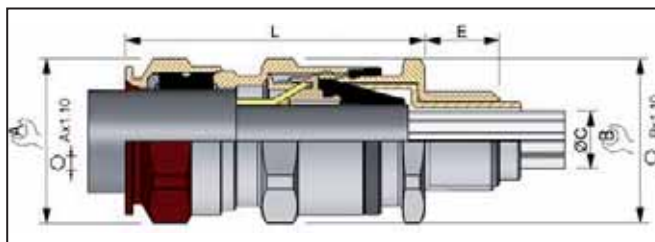
For armoured cable

### Cable type

Steel wire armoured cable, steel wire braided, steel tape armoured, braided marine shipboard

### Certifications and Compliances

- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/ Ex tD /Ex II 2 GD
- IECEx LCI 05.0004X
- NEMA 4X and IP68
- CEPTEL cepel-EX-558/05X (pending)
- GOST-R POCC FR.B02011 (pending)
- ABS approbation : N° 10-HS 577243-PDA / P 1836754-X



### Features:

- Standard material is nickel-plated brass for superior corrosion resistance
- Resumption of armour without reversible components.
- Provides flameproof seal on the bits and the inner sheath of the armoured cables.
- Provides a weatherproof seal on the outer sheath of the armoured cable.
- Fully inspectable armour clamping and crimping including deluge boot.
- Signalitique: red stopping plug.
- Neoprene seal and resin certify in the range of temperature ATEX -60°C to +80°C.
- Available with metric or NPT threads.
- See page 172 for additional clamping.
- See pages 180 to 186 for related accessories.

ORDERING EXAMPLE:		OPTIONS (replace last digit with option number):	
CAP56959 4		9	Stainless steel (316L)
		8	Bronze
		7	Aluminum
Gland Type	Options		

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO / (NPT)	CABLE				L	HEXAGON		COND	
	ISO	Reference	NPT	Reference		INNER SHEATH		CONDUCTOR			A	B		
						Min	Max	Ø Max	Max number					
4	16	CAP569594	3/8	CAP571594	15 (12)	4	7,5	6,5	5 X	Ø1,5	36	15	19	40
4	20	CAP569674	1/2	CAP571074	15 (22,2)	4	7,5	6,5	5 X	Ø1,5	36	15	24	40
5	20	CAP569674	1/2	CAP571674	15 (22,2)	6,5	11	9,5	5 X	Ø2,5	42	19	24	40
6	20	CAP569694	1/2	CAP571694	15 (22,2)	9	14,5	12	8 X	Ø2,5	48	24	30	40
6	25	CAP569704	3/4	CAP571704	15 (22,5)	9	14,5	12	8 X	Ø2,5	48	24	30	40
7	25	CAP569794	3/4	CAP569794	15 (22,5)	12	19,5	17	12 X	Ø2,5	58	30	41	30

# Certified ACCESSORIES series ADE



**CLAMPING MODULE - material: nickel-plated brass and stainless steel washer and screws**

**SELECTION TABLE**

cable range	size	for HEXAGON	width	thickness	reference
4-8.5	4	15	18	5	CAP810434
6-11	5	19	22	5	CAP810534
8.5-16	6	24	27.5	6	CAP810634
12-21	7	30	33.5	8	CAP810734
16-27.5	8	41	45	8	CAP810834
21-34	9	48	52	9.5	CAP810934
27-41	10	55	59	9.5	CAP811034
33-48	11	64	69	12	CAP811134
40-56	12	72	78	12	CAP811234
47-65	13	85	92	16	CAP811334
54-74	14	95	103	16	CAP811434
63-83	15	110	118	18	CAP811534
72-93	16	120	128	18	CAP811634



**LEAD SHEATH washer - material: brass**

**SELECTION TABLE**

Size ade 4f	CAPACITY on lead sheath		reference
	MIN	MAX	
5	4	7.5	CAP560530
6	6	11	CAP560630
7	9	15	CAP560730
8	12	20	CAP560830
9	16	26.5	CAP560930
10	21	32.5	CAP561030
11	28	39.5	CAP561130
12	33	46.5	CAP561230
13	40	54.5	CAP561330
14	46.5	61	CAP561430
15	54	72.5	CAP561530
16	63	81.5	CAP561630







### Cable gland type

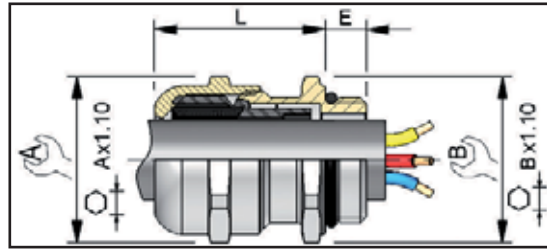
For unarmoured cable

### Cable type

Unarmoured or braided cable

### Certifications and Compliances

- ATEX/Exe II/ Ex tD /Ex II 2 GD
- EN 50262



### Features:

- Material: Nickel-plated brass.
- Neoprene sealing ring and dust cover.
- Polyamide clamping bush.
- Operating temperature range ATEX : -40°C +100°C.
- O-ring.
- IP 68: Protection according to NF EN 60529.
- Metric thread: ISO-NF EN 60423 and NF EN 50262.

ENTRY THREAD SIZE ISO										LONG FIXING THREAD STAINLESS 316 L	
Gland size	ISO	Reference	E	Braid thickness	Cable		L	HEXAGON		E	Reference
					Diameter			A	B		
					Min	Max					
4	12	CAP192124	6,5	0,7	3	6,5	18	15	15	15	CAP192129
4	16	CAP192154	6,5	0,7	3	6,5	18	15	18	15	CAP192159
5	16	CAP192164	6,5	0,7	4,5	10	24	20	20	15	CAP192169
5	20	CAP192194	6,5	0,7	4,5	10	24	20	22	15	CAP192199
6	20	CAP192204	6,5	0,8	6	13	27	24	24	15	CAP192209
6	25	CAP192244	7	0,8	6	13	27	24	27	15	CAP192249
7	25	CAP192254	7	0,85	10	18	28	30	30	15	CAP192259
7	32	CAP192314	8	0,85	10	18	28	30	34	15	CAP192319
8	32	CAP192324	8	0,95	16	24,5	30	38	38	15	CAP192329
8	40	CAP192394	8	0,95	16	24,5	30	38	43	15	CAP192399
9	40	CAP192404	8	1	22	32	33	47	47	15	CAP192409
9	50	CAP192494	9	1	22	32	33	47	54	15	CAP192499
10	50	CAP192504	9	1,15	29	40,5	37	57	57	15	CAP192509
10	63	CAP192624	10	1,15	29	40,5	37	57	68	15	CAP192629
11	63	CAP192634	10	1,75	37	53	48	75	75	15	CAP192639



### Cable gland type

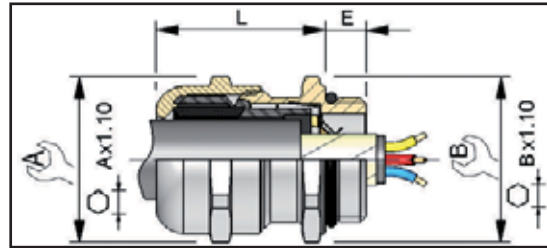
For round cable

### Cable type

Unarmoured or braided cable

### Certifications and Compliances

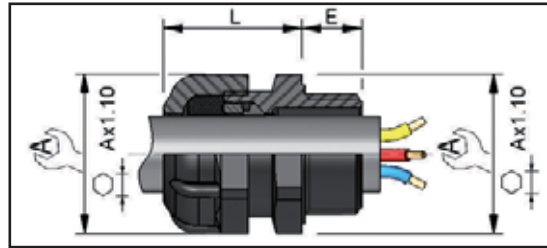
- ATEX / Exe II/ Ex tD /Ex II 2 GD
- EN 50262



### Features:

- Material: Nickel-plated brass.
- Neoprene sealing ring and dust cover.
- Polyamide clamping bush.
- Operating temperature range ATEX : -40°C +100°C.
- O-ring.
- Metallic continuity washer.
- IP 68: Protection according to NF EN 60529.
- Metric thread: ISO-NF EN 60423 and NF EN 50262.

ENTRY THREAD SIZE ISO											LONG FIXING THREAD STAINLESS 316 L	
Gland size	ISO	Reference	E	Braid thickness	Cable			L	HEXAGON		E	Reference
					Diameter on shield	Diameter			A	B		
						Min	Max					
4	12	CAP193124	6,5	0,7	3	3	6,5	18	15	15	15	CAP193129
4	16	CAP193154	6,5	0,7	3	3	6,5	18	15	18	15	CAP193159
5	16	CAP193164	6,5	0,7	4,5	4,5	10	24	20	20	15	CAP193169
5	20	CAP193194	6,5	0,7	4,5	4,5	10	24	20	22	15	CAP193199
6	20	CAP193204	6,5	0,8	6	6	13	27	24	24	15	CAP193209
6	25	CAP193244	7	0,8	6	6	13	27	24	27	15	CAP193249
7	25	CAP193254	7	0,85	10	10	18	28	30	30	15	CAP193259
7	32	CAP193314	8	0,85	10	10	18	28	30	34	15	CAP193319
8	32	CAP193324	8	0,95	15	16	24,5	30	38	38	15	CAP193329
8	40	CAP193394	8	0,95	15	16	24,5	30	38	43	15	CAP193399
9	40	CAP193404	8	1	20,5	22	32	33	47	47	15	CAP193409
9	50	CAP193494	9	1	20,5	22	32	33	47	54	15	CAP193499
10	50	CAP193504	9	1,15	27,5	29	40,5	37	57	57	15	CAP193509
10	63	CAP193624	10	1,15	27,5	29	40,5	37	57	68	15	CAP193629
11	63	CAP193634	10	1,75	34,5	37	53	48	75	75	15	CAP193639



### Cable gland type

For round cable

### Cable type

Unarmoured round cable

### Certifications and Compliances

- ATEX LCIE 97 ATEX 6007X /Exe II/Ex tD/Ex II 2 GD
- EN 50262

### Features:

- Material: polyamide 6 – UL 94 HB halogene free.
- Color : black RAL 9005.
- Santoprene seal ring.
- Operating temperature range ATEX : -20°C à +80°C.
- IP 68 according to NF EN 60529.
- See page 181 for obturator polyamide.
- Metric thread: ISO-NF EN 60423 and NF EN 50262.

### ENTRY THREAD SIZE ISO

Gland size	Entry thread size		E	outer sheath		L	HEXAGON	
	ISO	Reference		Min	Max		A	B
4	12	CAP441206	9	3,5	6	18	15	15
5	16	CAP441606	12	5	8	22	19	19
6	16	CAP441806	9	6	10	22	22	22
7	20	CAP442006	12	8	13	23	24	24
8	20	CAP442206	10	10	15	23	26	26
9	25	CAP442506	13	13	19	29	32	32
10	32	CAP443206	15	18	25	29	41	41
11	40	CAP444006	15	24	32	35	52	52
12	50	CAP445006	16	29	38	40	59	59
13	63	CAP446306	16	36	44	42	65	65



### Cable gland type

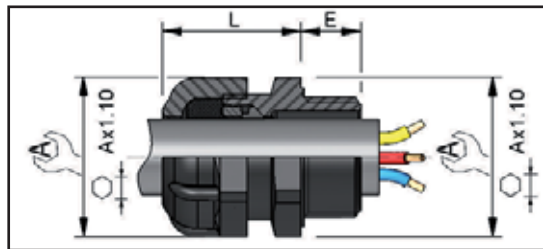
For round cable

### Cable type

Unarmoured round cable

### Certifications and Compliances

- ATEX LCIE 97 ATEX 6007X /Exe II/Ex tD/Ex II 2 GD
- EN 50262



### Features:

- Material: polyamide 6 – UL 94 HB halogene free.
- Color : black RAL 9005 – blue RAL 5012 (capnut).
- Santoprene seal ring.
- Operating temperature range ATEX : -20°C à +80°C.
- IP 68 according to NF EN 60529.
- See page 181 for obturator polyamide.
- Metric thread: ISO-NF EN 60423 and NF EN 50262.

### ENTRY THREAD SIZE ISO

Gland size	Entry thread size		E	outer sheath		L	HEXAGON	
	ISO	Reference		Min	Max		A	B
4	12	CAP441207	9	3,5	6	18	15	15
5	16	CAP441607	12	5	8	22	19	19
6	16	CAP441807	9	6	10	22	22	22
7	20	CAP442007	12	8	13	23	24	24
8	20	CAP442207	10	10	15	23	26	26
9	25	CAP442507	13	13	19	29	32	32
10	32	CAP443207	15	18	25	29	41	41
11	40	CAP444007	15	24	32	35	52	52
12	50	CAP445007	16	29	38	40	59	59
13	63	CAP446307	16	36	44	42	65	65

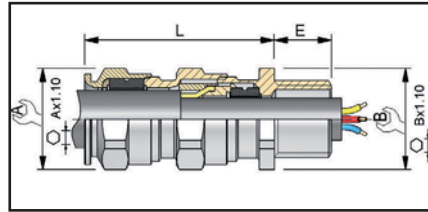




### Cable gland type For armoured cable

### Cable type

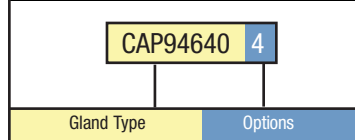
Steel wire armoured cable, steel wire braided, steel tape armoured, braided marine shipboard and lead sheathed (with addition of earthing washer)



### Features:

- Standard material is nickel-plated brass for superior corrosion resistance.
- Armour clamping and bonding with no reversible components for easy installation, minimizing error.
- Provides the sealing on the inner and outer sheath of the armoured cables.
- Continuous use temperature: -20°C to +100°C.
- Available with metric or NPT threads.
- See pages 31-32 for related accessories.

### ORDERING EXAMPLE:



### OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum

GLAND SIZE	ENTRY THREAD SIZE				LENGTH E ISO / (NPT)	CABLE				BRAID THICKNESS MAX	L	HEXAGON	
	ISO	Reference	NPT	Reference		INNER SHEATH		OUTER SHEATH				A	B
						Min	Max	Min	Max				
5	12	CAP946404	1/4"	CAP948404	15 (12.0)	4.0	8.0	6.0	12.0	0.9	36	19	19
5	16	CAP946594	3/8"	CAP948594	15 (12.0)	4.0	8.5	6.0	12.0	0.9	36	19	19
6	16	CAP946504	3/8"	CAP948504	15 (12.0)	6.0	12.0	8.5	16.0	1.25	42	24	24
5	20	CAP946674	1/2"	CAP948674	15 (20.2)	4.0	8.5	6.0	12.0	0.9	36	19	24
6	20	CAP946694	1/2"	CAP948694	15 (20.2)	6.0	12.0	8.5	16.0	1.25	42	24	24
7	20	CAP946604	1/2"	CAP948604	15 (20.2)	8.5	16.0	12.0	21.0	1.25	46	30	30
6	25	CAP946774	3/4"	CAP948774	15 (20.2)	6.0	12.0	8.5	16.0	1.25	42	19	30
7	25	CAP946794	3/4"	CAP948795	15 (20.2)	8.5	16.0	12.0	21.0	1.25	46	24	30
8	25	CAP946704	3/4"	CAP948704	15 (20.2)	12.0	20.5	16.0	27.5	1.6	56	30	41
8	32	CAP946894	1"	CAP948894	15 (25.3)	12.0	21.0	16.0	27.5	1.6	56	41	41
9	32	CAP946804	1"	CAP948804	15 (25.3)	16.0	27.5	21.0	34.0	1.6	63	41	48
9	40	CAP946994	1-1/4"	CAP948994	15 (26.0)	16.0	27.5	21.0	34.0	1.6	63	48	48
10	40	CAP946904	1-1/4"	CAP948904	15 (26.0)	21.0	34.0	27.0	41.0	2	68	48	55
10	50	CAP947094	1-1/2"	CAP949904	16 (26.5)	21.0	34.0	27.0	41.0	2	68	55	55
11	50	CAP947004	1-1/2"	CAP949004	16 (26.5)	27.0	41.0	33.0	48.0	2.5	74	55	64
12	63	CAP947294	2"	CAP949294	17 (27.2)	27.0	41.0	33.0	48.0	2.5	77	64	72
13	63	CAP947204	2"	CAP949204	17 (27.2)	33.0	48.0	40.0	56.0	2.5	85	72	85
13	75	CAP947394	2-1/2"	CAP949949	18 (40.5)	40.0	56.0	47.0	65.0	2.5	85	85	85
14	75	CAP947304	2-1/2"	CAP949404	18 (40.5)	47.0	65.0	54.0	74.0	2.5	92	85	95
15	90	CAP947594	3"	CAP949564	22 (42.0)	54.0	74.0	63.0	83.0	3.15	104	95	110
16	90	CAP947504	3"	CAP949504	22 (42.0)	63.0	82.0	72.0	93.0	3.15	108	110	120
16	-	-	3-1/2"	CAP949604	- (43.2)	63.0	82.0	72.0	93.0	3.15	108	120	120
17	M110	CAP947794	4"	CAP949704	22 (44.5)	72.0	92.0	85.0	107.0	3.15	115	135	135



# Certified accessories

## Certifications and Compliances

LCIE N° LCIE 08 ATEX 6085X

- Conforms to the ATEX 94/9/CE directive
- According to EN 60079-0, -1, -2, -7, -11 and EN 61241-0, -1 standards

GOST-R N° 6022158

NEPSI N° GYJ071338U & GYJ071339U

- According to CEI 60079-0, -1, -2, -7, -11 and CEI 61241-0, -1 standards

IECEX N° LCI 08.0035X

- Conforme to the requirements IECEx
- According to CEI 60079-0, -1, -2, -7, -11 and CEI 61241-0, -1 standards



ISO

LOCKNUT - material: nickel-plated brass

### METRIC SELECTION TABLE

THREAD SIZE	E	A	Reference
16	3	18	CAP221694
20	3	23	CAP222094
25	3	28	CAP222594
32	3.5	36	CAP223294
40	4	44	CAP224094
50	5	54	CAP225094
63	6	70	CAP226394
75	8	85	CAP227594
90	10	100	CAP229094
110	12	120	CAP221104

NPT

LOCKNUT - material: nickel-plated brass

### NPT SELECTION TABLE

THREAD SIZE	E	A	Reference
1/2"	3.5	24	CAP280124
3/4"	3.5	30	CAP280134
1"	4.5	37	CAP280144
1-1/4"	4.5	47	CAP280154
1-1/2"	5	52	CAP280164
2"	5.5	64	CAP280174
2-1/2"	6.5	77	CAP280184
3	8	95	CAP280194
3-1/2"	10	110	CAP280204
4"	11	120	CAP280214



ISO

LOCKNUT - material: stainless steel 316 L

### METRIC SELECTION TABLE

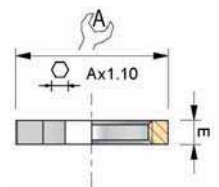
THREAD SIZE	E	A	Reference
16	3	18	CAP221699
20	3	23	CAP222099
25	3	28	CAP222599
32	3.5	36	CAP223299
40	4	44	CAP224099
50	5	54	CAP225099
63	6	70	CAP226399
75	8	85	CAP227599
90	10	100	CAP229099
110	12	120	CAP221109

NPT

LOCKNUT - material: stainless steel 316 L

### NPT SELECTION TABLE

THREAD SIZE	E	A	Reference
1/2"	3.5	24	CAP280129
3/4"	3.5	30	CAP280139
1"	4.5	37	CAP280149
1-1/4"	4.5	47	CAP280159
1-1/2"	5	52	CAP280169
2"	5.5	64	CAP280179
2-1/2"	6.5	77	CAP280189
3	8	95	CAP280199
3-1/2"	10	110	CAP280209
4"	11	120	CAP280219





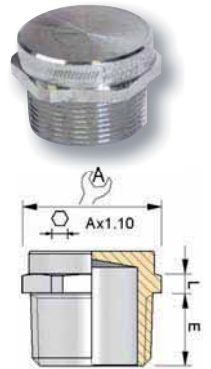
## STOPPING PLUG - material: nickel-plated brass

METRIC SELECTION TABLE					
THREAD SIZE	reference	a	L	e	Type
12	CAP190124	14	2.8	15	1
16	CAP190164	18	3.0	15	1
20	CAP190204	23	3.0	15	1
25	CAP190254	28	3.5	15	1
32	CAP190324	36	4.0	15	1
40	CAP190404	44	4.0	15	1
50	CAP190504	54	5.0	16	1
63	CAP190634	67	5.5	17	1
75	CAP190754	80	6.0	18	2
90	CAP199904	95	8.0	22	2
100	CAP191004	110	10.0	22	2
110	CAP191014	120	11	22	2

## STOPPING PLUG - material: nickel-plated brass

NPT SELECTION TABLE					
THREAD SIZE	reference	a	L	e	Type
1/4"	CAP190194	14	2.8	12	1
3/8"	CAP109294	18	2.8	12	1
1/2"	CAP190394	22	3.0	16	1
3/4"	CAP190494	28	3.0	16	1
1"	CAP190594	36	3.5	20	1
1-1/4"	CAP190694	44	4.0	20	2
1-1/2"	CAP190794	50	5.0	20	2
2"	CAP190894	64	5.5	20	2
2-1/2"	CAP190994	75	6.0	28	2
3"	CAP191094	90	6.0	30	2
3-1/2"	CAP191194	110	10.0	32	2
4"	CAP191294	120	11	32	2

TYPE 1



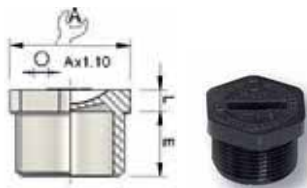
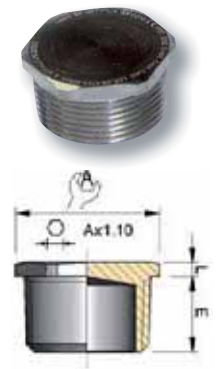
## STOPPING PLUG - material: stainless steel 316 L

METRIC SELECTION TABLE					
THREAD SIZE	reference	a	L	e	Type
12	CAP190129	14	2.8	15	1
16	CAP190169	18	3.0	15	1
20	CAP190209	23	3.0	15	1
25	CAP190259	28	3.5	15	1
32	CAP190329	36	4.0	15	1
40	CAP190409	44	4.0	15	1
50	CAP190509	54	5.0	16	1
63	CAP190639	67	5.5	17	1
75	CAP190759	80	6.0	18	2
90	CAP199909	95	8.0	22	2
100	CAP191009	110	10.0	22	2
110	CAP191019	120	11	22	2

## STOPPING PLUG - material: stainless steel 316 L

NPT SELECTION TABLE					
THREAD SIZE	reference	a	L	e	Type
1/4"	CAP190199	14	2.8	12	1
3/8"	CAP109299	18	2.8	12	1
1/2"	CAP190399	22	3.0	16	1
3/4"	CAP190499	28	3.0	16	1
1"	CAP190599	36	3.5	20	1
1-1/4"	CAP190699	44	4.0	20	1
1-1/2"	CAP190799	50	5.0	20	1
2"	CAP190899	64	5.5	20	1
2-1/2"	CAP190999	75	6.0	28	2
3"	CAP191099	90	6.0	30	2
3-1/2"	CAP191199	110	10.0	32	2
4"	CAP191299	120	11	32	2

TYPE 2



## STOPPING PLUG - material: polyamide

METRIC SELECTION TABLE				
THREAD SIZE	reference	a	L	e
12	CAP191127	15	4	15
16	CAP191167	19	4	15
20	CAP191207	23	4	15
25	CAP191257	28	5	15
32	CAP191327	36	5.5	15
40	CAP191407	44	5.5	15
50	CAP191507	54	6	16
63	CAP191637	67	6.5	17

## OBTURATOR - material: polyamide

SELECTION TABLE			
N°	reference	OBTURATOR SIZE	Ø
4	CAP250712	1	5.5
5	CAP250912	2	8
6	CAP251112	3	10
7	CAP251312	4	12.3
8	CAP251612	5	14.3
9	CAP252112	6	18.3
10	CAP252912	7	24.3
11	CAP253612	8	31.5
12	CAP254212	9	37
13	CAP254812	10	43





ISO

EARTH TAG - material: nickel-plated brass

METRIC SELECTION TABLE

THREAD SIZE	a	b	c	d	Reference
16	48.75	30	6.75	24.5	CAP567034
20	53.8	33	7	28.6	CAP567054
25	61.5	36	10.5	34	CAP567074
32	73	41	12.2	42	CAP567094
40	86.5	44.5	13.5	54	CAP567124
50	111.5	58	13.5	67	CAP567154
63	125.5	67	13.5	77	CAP567184
75	137.5	73	13.5	89	CAP567194
90	167	93	13.5	109.5	CAP567214
110	214	125	13.5	138	CAP567234

NPT

EARTH TAG - material: nickel-plated brass

NPT SELECTION TABLE

THREAD SIZE	a	b	c	d	Reference
1/2"	61.5	36	10.5	34	CAP567064
3/4"	73	41	12.2	42	CAP567084
1"	73	41	12.2	42	CAP567104
1-1/4"	86.5	44.5	13.5	54	CAP567134
1-1/2"	111.5	58	13.5	67	CAP567154
2"	125.5	67	13.5	77	CAP567174
2-1/2"	137.5	73	13.5	89	CAP567194
3"	167	93	13.5	109.5	CAP567214
3-1/2"	188	107.3	13.5	121.5	CAP567224
4"	214	125	13.5	138	CAP567244



ISO

EARTH TAG - material: stainless steel 316 L

METRIC SELECTION TABLE

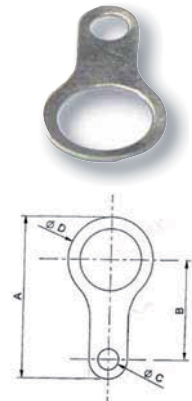
THREAD SIZE	a	b	c	d	Reference
16	48.75	30	6.75	24.5	CAP567039
20	53.8	33	7	28.6	CAP567059
25	61.5	36	10.5	34	CAP567079
32	73	41	12.2	42	CAP567099
40	86.5	44.5	13.5	54	CAP567129
50	111.5	58	13.5	67	CAP567159
63	125.5	67	13.5	77	CAP567189
75	137.5	73	13.5	89	CAP567199
90	167	93	13.5	109.5	CAP567219
110	214	125	13.5	138	CAP567239

NPT

EARTH TAG - material: stainless steel 316 L

NPT SELECTION TABLE

THREAD SIZE	a	b	c	d	Reference
1/2"	61.5	36	10.5	34	CAP567069
3/4"	73	41	12.2	42	CAP567089
1"	73	41	12.2	42	CAP567109
1-1/4"	86.5	44.5	13.5	54	CAP567139
1-1/2"	111.5	58	13.5	67	CAP567159
2"	125.5	67	13.5	77	CAP567179
2-1/2"	137.5	73	13.5	89	CAP567199
3"	167	93	13.5	109.5	CAP567219
3-1/2"	188	107.3	13.5	121.5	CAP567229
4"	214	125	13.5	138	CAP567249



# Reducers / Adaptors selection table



**COOPER** Safety

on request

size unavailable

ENDING 9 : STAINLESS 316 L / ENDING 7 : Aluminium

Standard material: nickeld-plated brass

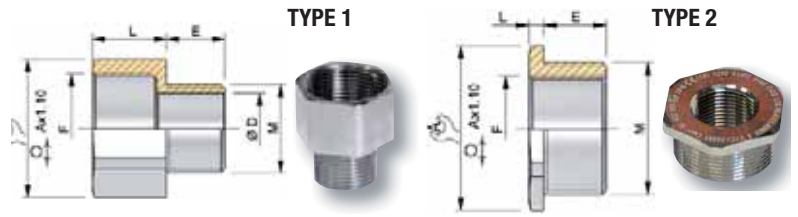
		FEMALE =====>											
METRIC	MALE	M12	M16	M20	M25	M32	M40	M50	M63	M75	M90	M110	
	M12		CAP745334										
	M16	CAP745834		CAP740274									
	M20	CAP745844	CAP740024		CAP740544								
	M25		CAP740034	CAP740294		CAP740814							
	M32			CAP740304	CAP740564		CAP741084						
	M40				CAP740574	CAP740834		CAP741084		CAP741354			
	M50					CAP740844	CAP741104			CAP741624			
	M63						CAP741114	CAP741374			CAP741894		
	M75							CAP741384	CAP741644			CAP745394	
	M90								CAP745854	CAP745864			
	M110											CAP745924	

		FEMALE =====>											
METRIC / NPT	MALE	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	
	M12	CAP744104											
	M16	CAP744184	CAP744194	CAP744694									
	M20	CAP744204	CAP744214	CAP744704	CAP744964								
	M25			CAP744214	CAP744974	CAP745234							
	M32			CAP744724	CAP744984	CAP745244	CAP745504						
	M40				CAP744994	CAP745254	CAP745514	CAP745774					
	M50					CAP745264	CAP745524	CAP745784	CAP746044				
	M63					CAP7452774	CAP745534	CAP745794	CAP746054	CAP746314			
	M75							CAP745804	CAP746064	CAP746324	CAP746584		
	M90								CAP744284	CAP744294	CAP744304	CAP744314	
	M110											CAP744514	CAP744254

		FEMALE =====>											
NPT / NPT	MALE	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	
	1/4	CAP744574	CAP744584										
	3/8	CAP745574	CAP744614	CAP744624									
	1/2		CAP745594	CAP744874	CAP745134								
	3/4		CAP745604	CAP744884	CAP745144	CAP745404							
	1			CAP744894	CAP745154	CAP745414	CAP745674						
	1 1/4				CAP745164	CAP745424	CAP745684	CAP745944					
	1 1/2					CAP745434	CAP745694	CAP745954	CAP746214				
	2					CAP745444	CAP745704	CAP745964	CAP746224	CAP746484			
	2 1/2							CAP745974	CAP745974	CAP746494	CAP746754		
	3								CAP746244	CAP746234			
	3 1/2									CAP745654	CAP745664		
4											CAP746834	CAP745734	

		FEMALE =====>											
NPT / ISO	MALE	M12	M16	M20	M25	M32	M40	M50	M63	M75	M90	M110	
	1/4	CAP740614	CAP740624										
	3/8	CAP740884	CAP740894	CAP740904									
	1/2	CAP740914	CAP740194	CAP740454	CAP740174								
	3/4		CAP740204	CAP740464	CAP740724	CAP740984							
	1			CAP740474	CAP740734	CAP740994	CAP741254						
	1 1/4				CAP740744	CAP741004	CAP741264	CAP741524					
	1 1/2					CAP741104	CAP741274	CAP741534	CAP741794				
	2						CAP741284	CAP741544	CA0741804	CAP742064			
	2 1/2							CAP741554	CAP741814				
	3								CAP741824	CAP742384			
	3 1/2												
4													

# Technical table Reducers / Adaptors



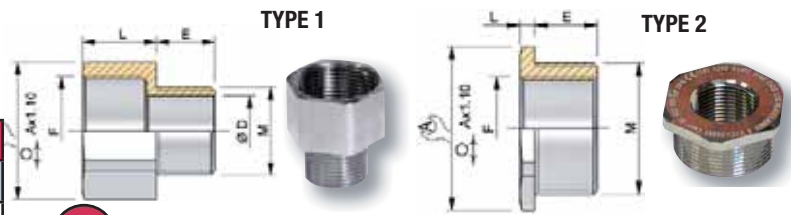
ISO

METRIC / METRIC							
M	F	CODE	TYPE	A	D	L	E
12	16	CAP 745334	1	18	7.7	7	15
16	12	CAP 745834	2	18	2.8	18.5	15
16	20	CAP 740274	1	23	11.7	18.5	15
20	12	CAP 745844	2	23	-	3	15
20	16	CAP 740024	2	23	-	3	15
20	25	CAP 740544	1	28	15.5	18.5	15
25	16	CAP 740034	2	28	-	3	15
25	20	CAP 740294	2	28	-	3	15
25	32	CAP 740814	1	36	20.3	19	15
32	20	CAP 740304	2	36	-	3.5	15
32	25	CAP 740564	2	36	-	3.5	15
32	40	CAP 741084	1	44	27.3	19	15
40	25	CAP 740574	2	44	-	4	15
40	32	CAP 740834	2	44	-	4	15
40	50	CAP 741354	1	54	35.3	20	15
50	32	CAP 740844	2	54	-	5	16
50	40	CAP 741104	2	54	-	5	16
50	63	CAP 741624	1	67	45.2	21	16
63	40	CAP 741114	2	67	-	5.5	17
63	50	CAP 741374	2	67	-	5.5	17
63	75	CAP 741894	1	80	57.8	22.5	17
75	32	CAP 740864	2	80	-	6	18
75	40	CAP 741124	2	80	-	6	18
75	50	CAP 741384	2	80	-	6	18
75	63	CAP 741644	2	80	-	6	18
75	90	CAP 745394	1	95	69.3	27.5	18
90	63	CAP 745854	2	95	-	8	22
90	75	CAP 745864	2	95	-	8	22
90	100	CAP 745484	1	110	83.2	22	27.5
100	75	CAP 745874	2	110	-	10	22
100	90	CAP 745914	2	120	-	10	22
100	110	CAP 745554	1	120	92.9	28	22
110	90	CAP 745924	2	120	-	11	22
110	100	CAP 745934	2	120	-	11	22

NPT

NPT/NPT							
M	F	CODE	TYPE	A	D	L	E
1/4"	3/8"	CAP 744584	1	20	8.3	14	12
3/8"	1/4"	CAP 745574	2	18	-	2.8	12
3/8"	1/2"	CAP 744624	1	24	11.7	18	12
1/2"	1/4"	CAP 745584	2	22	-	3	16
1/2"	3/8"	CAP 745594	2	22	-	3	16
1/2"	3/4"	CAP 745134	1	30	15	18.5	16
3/4"	3/8"	CAP 745604	2	28	-	3	16
3/4"	1/2"	CAP 744884	2	28	-	3	16
3/4"	1"	CAP 745404	1	38	20.1	22.5	16
1"	1/2"	CAP 744894	2	36	-	3.5	20
1"	3/4"	CAP 745154	2	36	-	3.5	20
1"	1"1/4"	CAP 745674	1	48	26	22.5	20
1"1/4"	3/4"	CAP 745164	2	44	-	4	20
1"1/4"	1"	CAP 745424	2	44	-	4	20
1"1/4"	1"1/2"	CAP 745944	1	52	34.8	22.5	20
1"1/2"	1"	CAP 745434	2	50	-	5	20
1"1/2"	1"1/4"	CAP 745694	2	50	-	5	20
1"1/2"	2"	CAP 746214	1	64	40.8	22.5	20
2"	1"	CAP 745444	2	64	-	5.5	20
2"	1"1/4"	CAP 745704	2	64	-	5.5	20
2"	1"1/2"	CAP 745964	2	64	-	5.5	20
2"	2"1/2"	CAP 746484	1	77	52.4	31	20
2"1/2"	1"1/2"	CAP 745974	2	75	-	6	28
2"1/2"	2"	CAP 746234	2	75	-	6	28
2"1/2"	3"	CAP 746754	1	95	62.8	33.5	28
3"	2"	CAP 746244	2	90	-	8	30
3"	2"1/2"	CAP 746504	2	90	-	8	30
3"	3"1/2"	CAP 744634	1	110	78	35.5	30
3"1/2"	2"1/2"	CAP 745654	2	110	-	10	32
3"1/2"	3"	CAP 745664	2	110	-	10	32
3"1/2"	4"	CAP 744654	1	125	90.4	38	32
4"	3"	CAP 746834	2	120	-	11	32
4"	3"1/2"	CAP 745734	2	120	-	11	32

# Technical table Reducers / Adaptors



ISO

METRIC/NPT							
M	F	CODE	TYPE	A	D	L	E
12	1/4"	CAP 744104	1	16	7.7	14	15
16	1/4"	CAP 744184	1	18	10.4	14	15
16	3/8"	CAP 744194	1	20	11.7	14	15
16	1/2"	CAP 744694	1	24	11.7	18	15
20	1/4"	CAP 744204	2	23	-	3	15
20	3/8"	CAP 744214	2	23	-	3	15
20	1/2"	CAP 744704	1	24	15.5	18	15
20	3/4"	CAP 744964	1	30	15.5	18.5	15
25	3/8"	CAP 742954	2	28	-	3	15
25	1/2"	CAP 744714	2	28	-	3	15
25	3/4"	CAP 744974	1	30	20.3	18.5	15
25	1"	CAP 745234	1	38	20.3	22.5	15
32	1/2"	CAP 744724	2	36	-	3.5	15
32	3/4"	CAP 744984	2	36	-	3.5	15
32	1"	CAP 745244	1	38	27.3	22.5	15
32	1 1/4"	CAP 745504	1	48	27.3	22.5	15
40	3/4"	CAP 744994	2	44	-	4	15
40	1"	CAP 745254	2	44	-	4	15
40	1 1/4"	CAP 745514	1	48	35.3	22.5	15
40	1 1/2"	CAP 745774	1	52	35.3	22.5	15
50	1"	CAP 745264	2	54	-	5	16
50	1 1/4"	CAP 745524	2	54	-	5	16
50	1 1/2"	CAP 745784	2	54	41.7	12.5	16
50	2"	CAP 746044	1	64	45.2	22.5	16
63	1"	CAP 745274	1	67	45.2	21	16
63	1 1/4"	CAP 745534	2	67	-	5.5	17
63	1 1/2"	CAP 745794	2	67	-	5.5	17
63	2"	CAP 746054	1	67	53.6	22.5	17
63	2 1/2"	CAP 746314	1	77	57.8	31	17
75	1 1/2"	CAP 745804	2	80	-	6	18
75	2"	CAP 746064	2	80	-	6	18
75	2 1/2"	CAP 746324	1	80	-	6	18
75	3"	CAP 746584	1	95	69.3	33.5	18
90	2"	CAP 744284	2	80	57.8	22.5	18
90	2 1/2"	CAP 744294	2	95	57.8	27.5	18
90	3"	CAP 744304	1	95	-	8	22
90	3 1/2"	CAP 744314	1	95	79.5	33.5	22
	2 1/2"	CAP 743134	2	95	83.2	27.5	22
100	3"	CAP 746034	2	110	83.2	27.5	22
	3 1/2"	CAP 744434	1	110	-	10	22
100	4"	CAP 744444	1	110	-	10	22
110	3"	CAP 744514	2	110	92.9	27.5	22
	3 1/2"	CAP 744524	2	120	92.9	28	22
110	4"	CAP 744534	1	120	-	11	22

NPT

NPT/ METRIC							
M	F	CODE	TYPE	A	D	L	E
1/4"	12	CAP 740614	1	14	8.3	18.5	12
1/4"	16	CAP 740624	1	18	8.3	18.5	12
3/8"	12	CAP 740884	2	18	-	2.8	12
3/8"	16	CAP 740894	1	18	11.7	18.5	12
3/8"	20	CAP 740904	1	23	11.7	18.5	12
1/2"	12	CAP 740914	2	22	-	3	16
1/2"	16	CAP 740194	2	22	-	3	16
1/2"	20	CAP 740454	1	23	15	18.5	16
1/2"	25	CAP 740714	1	28	15	19	16
3/4"	16	CAP 740204	2	28	-	3	16
3/4"	20	CAP 740464	2	28	-	3	16
3/4"	25	CAP 740724	1	28	20.1	19	16
3/4"	32	CAP 740984	1	36	20.1	19	16
1"	20	CAP 740474	2	36	-	3.5	20
1"	25	CAP 740734	2	36	-	3.5	20
1"	32	CAP 740994	1	36	26	19	20
1"	40	CAP 741254	1	44	26	19	20
1 1/4"	25	CAP 740744	2	44	-	4	20
1 1/4"	32	CAP 741004	2	44	-	4	20
1 1/4"	40	CAP 741264	1	44	34.8	19	20
1 1/4"	50	CAP 741524	1	54	34.8	20	20
1 1/2"	32	CAP 741014	2	50	-	5	20
1 1/2"	40	CAP 741274	2	50	-	5	20
1 1/2"	50	CAP 741534	1	54	40.8	20	20
1 1/2"	63	CAP 741794	1	67	40.8	21	20
2"	40	CAP 741284	2	64	-	5.5	20
2"	50	CAP 741544	2	64	-	5.5	20
2"	63	CAP 741804	1	67	52.4	21	20
2"	75	CAP 742064	1	80	52.4	22.5	20
2 1/2"	50	CAP 741554	2	75	-	6	28
2 1/2"	63	CAP 741814	2	75	-	6	28
2 1/2"	75	CAP 742074	1	80	62.8	22.5	28
2 1/2"	90	CAP 741154	1	95	62.8	27.5	28
3"	63	CAP 741824	2	90	-	8	30
3"	75	CAP 742084	2	90	-	8	30
3"	90	CAP 741244	1	95	78	27.5	30
3"	100	CAP 741314	1	110	78	27.5	30
3 1/2"	75	CAP 741434	2	110	-	10	32
3 1/2"	90	CAP 741444	2	110	-	10	32
3 1/2"	100	CAP 741454	1	110	90.4	27.5	32
3 1/2"	110	CAP 741494	1	120	90.4	28	32



# Accessories

## GASKET - material: fiber

ISO

### METRIC SELECTION TABLE

THREAD SIZE	reference	D	e
10	CAP 221045	15	1.2
12	CAP 221245	18	1.2
16	CAP 221645	22	1.2
20	CAP 222045	27	1.2
25	CAP 222545	35	1.5
32	CAP 223245	43	1.5
40	CAP 224045	55	1.5
50	CAP 225045	69	1.5
63	CAP 226345	82	2
75	CAP227545	94	2
90	CAP229045	110	2
110	CAP221145	130	2

NPT

## GASKET - material: fiber

### NPT SELECTION TABLE

THREAD SIZE	reference	D	e
1/4"	CAP239014	18	1.5
3/8"	CAP239038	22	1.5
1/2"	CAP239012	31	1.5
3/4"	CAP239034	35	1.5
1"	CAP239010	43	1.5
1 1/4"	CAP239114	59	1.5
1 1/2"	CAP239112	69	1.5
2"	CAP239020	79	2
2 1/2"	CAP239212	94	2
3"	CAP239300	110	2
3 1/2"	CAP239312	119	2
4"	CAP239414	130	2



## GASKET - material: neoprene

ISO

### METRIC SELECTION TABLE

THREAD SIZE	reference	D	e
10	CAP221049	15.0	1.2
12	CAP221249	18.0	1.2
16	CAP221649	22.0	1.2
20	CAP222049	24.0	1.2
25	CAP222549	30.0	1.5
32	CAP223249	42.0	1.5
40	CAP224049	52.0	1.5
50	CAP225049	63.0	1.5
63	CAP226349	77.0	2.0
75	CAP227549	90	2.0
90	CAP229049	106	2.0
110	CAP221149	126	2.0

NPT

## GASKET - material: neoprene

### NPT SELECTION TABLE

THREAD SIZE	reference	D	E
1/4"	CAP229014	20.0	1.5
3/8"	CAP229038	22.0	1.5
1/2"	CAP229012	27.0	1.5
3/4"	CAP229034	33.0	1.5
1"	CAP229010	41.0	1.5
1-1/4"	CAP229114	52.0	1.5
1-1/2"	CAP229112	57.0	1.5
2"	CAP229020	71.0	2.0
2-1/2"	CAP229212	85.0	2.0
3"	CAP229300	104.0	2.0
3-1/2"	CAP229312	120.0	2.0
4"	CAP229414	130	.02



## SERRATED WASHER - material: galvanized steel

### METRIC SELECTION TABLE

Metric	External diameter	reference
16	25.5	CAP280016
20	32.5	CAP280020
25	39.5	CAP280225
32	49.5	CAP280332
40	64.5	CAP280440
50	80.5	CAP280550
63	100	CAP280663
75	112	CAP280775
90	123	CAP280090

## SERRATED WASHER - material: stainless steel 304L

### METRIC SELECTION TABLE

Metric	External diameter	reference
16	25.5	CAP280069
20	32.5	CAP280029
25	39.5	CAP280259
32	49.5	CAP280329
40	64.5	CAP280409
50	80.5	CAP280509
63	100	CAP280639
75	112	CAP280759
90	123	CAP280099

## SHROUD - material: PVC

### SELECTION TABLE

Size ADE	Diameter A	reference
4	16	CAP506040
5	20	CAP506050
6	25	CAP506060
7	31	CAP506070
8	43	CAP506080
9	52	CAP506090
10	59	CAP506100
11	67	CAP506110
12	75	CAP506120
13	90	CAP506130
14	100	CAP506140
15	116	CAP506150
16	127	CAP506160

